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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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de energie-efficiêntie voor waterverwarming onder koudere klimaatomstandigheden Energieffektivitet vid vattenuppvärmning under kallare klimatforhållanden energiefektiviteten ved vandopvarmning under koldere klimatforhållanden energietica os vedenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa energieffektivitet vid vattenuppvärmning under kallare klimatforhållanden energieffektiviteten ved vandopvarmning under koldere klimatforhållanden energiefektiviteten ved vandopvarmning under koldere klimatforhållanden energiefektiviteten ved vandopvarmning under kallare klimatforhållanden energiefektiviteten ved vandopvarmning under varmer klimatforhållanden fefficienze energietica do s de energie-efficientie voor waterverwarming onder warmere klimatofugheden Energiefektivitet vid vattenuppvärmning under varmare klimatforhållanden energiefektiviteten ved vandopvarmning under varmere klimatorhold a eficiencia energietica do s vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa Energiefektivitet vid vattenuppvärmning under varmare klimatforhållanden energiefektiviteten ved vandopvarmning under varmere klimatorhold eefktywność eneregietica do s Soun	Water heating energy efficiency under colder climate conditions	ass	pour le chauffage de l'eau, dans les conditions clim
Verdenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa energieticki učinnost ohfevu vody za chladnějšich klimatických podminek energieticki vod vantovenou cover vantovenou covervantovane vantovenou cover vantovenou cover vantovenou cover v			teten ved vandonvarmning under koldere klimaforhold
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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
vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa energetická účinnost ohřevu vody za teplejšich klimatických podmínek енергийната ефективност при подгряване на вода при по-топли климатични условия Sound power level L _{WA} outdoor der Schallleistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur ledeluidsvermogenstriveau L _{WA} buiten L _{WA} buiten L _{WA} i Udonflue	de eneraie-	opvärmn	
Image: Sound power level L _{WA} outdoor der Schallteistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur Sound power level L _{WA} outdoor Ljudeffektnivân L _{WA} i utomhus lydeffektnivân L _{WA} i utomhus	vedenlämmi	vody za	ефективност при подгряване на вода при по-топли климатични
het geluidsvermogensniveau L _{WA} buiten L _{WA} i ude Ljudeffektnivån L _{WA} i utomhus			-
		ien	acoustique L WA à l'extérieur

	Fenañol
	EAAŋvıká
	unidad exterior Eξωτερική μονάδα
	unidad interior Ecrumpokh μονάδα
	- la aplicación de media temperatura In εφαριμογή σε μέση θεριμοκρασία
	- la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία
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édias) owanego)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
	el nivel de potencia acústica L _{WA} en interiores η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	funcionar solamente durante las horas de baja demanda λεπουργία μόνο εκτός των ωρών αιχμής
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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-SHWM60VAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	129	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5.87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		·	
Off mode	P _{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	Q_{HE}	3761	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 000	k₩h				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
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百藤建一				Manager, Quality Assuarance Department			
M MOLT DE -				TURKEY			
Details and propertiens on installation maintance	•			installation and or operation manuals			

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	184	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	3. 39	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 ° C	Pdh	4.8	kW	Tj = + 2 ° C	COPd	4. 76	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 7 ° C	Pdh	4.9	kW	Tj = + 7 ° C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2. 74	-
Tj = operation limit temperature (***)	Pdh	6.0	kW	Tj = operation limit temperature (***)	COPd	2. 74	-
			•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{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	Q _{HE}	2655	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 th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
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Details and precautions on installation, maintena Details and precautions on recycling and/or dis		•		installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	115	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 3	kW	Tj = + 7 ° C	COPd	4.89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	2. 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}	4993	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	um-temperatu	re section.	Manager, Quality Assuarance Department			
	,			TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Rated heat output (*) Declared capacity for heating for part	Prated						
Declared capacity for heating for part		6.0	kW	Seasonal space heating energy efficiency	η s	138	%
	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperatu	re Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	3. 8	kW	Tj = +2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u>_</u>	
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u>_</u>	
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7. 56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than a	active mo	de		Supplementary heater			
Off mode	P _{OFF}	0. 015	kW	Rated heat output (*)	Psup	2.9	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}	4202	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 MANU	JFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
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The eigneture is eigned in the everage elime	ata / madiu	m tomporatu	ra anation	Kenichi SAITO Manager, Quality Assuarance Department			
The signature is signed in the average clima	ate / meult	m - Lemperatu		TURKEY			
· Details and precautions on installation, maintenand	ce and asse	embly can be	found in the				

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	159	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6.16	-
Degradation co-efficient (**)	Cdh	0.98	-			L]	
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6.0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
			1				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW			ļļ	
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Р _{ск}	0.000	kW				
Other items			II.				
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}	1980	kWh				
For heat pump combination heater:		1	ιι				
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			II				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
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The simulation is simulationally the				Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
Details and precautions on installation, maintena	ince and ass	embly can be	found in the				

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6. 0	kW	Seasonal space heating energy efficiency	ηs	220	%
Declared capacity for heating for part	: load at	indoor	•	Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	perature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	3.80	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	5. 10	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	3.80	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		1 1	
Off mode	P _{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}	1437	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	lu Bulvari No∶	19 Yunusemre – M	anisa, Turkey
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 \cdot Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6. 0	kW	Seasonal space heating energy efficiency	η s	129	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5. 87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{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	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}	3761	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							
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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-SHWM60VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	184	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	3. 39	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.8	kW	Tj = + 2 ° C	COPd	4. 76	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 7 ° C	Pdh	4. 9	kW	Tj = + 7 ° C	COPd	5. 90	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 74	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 74	-
			•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{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	Q _{HE}	2655	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	k₩h				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	lanisa, Turkey
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Details and precautions on installation, maintena Details and precautions on recycling and/or dis				installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	115	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0.015	kW	Rated heat output (*)	Psup	2.0	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}	4993	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	NUFACTURING T	URKEY JOINT S	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
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				TURKEY			
· Details and precautions on installation, maintena	nce and asso	embly can be	found in the				
· Details and precautions on recycling and/or disp	oosal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	138	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	-	Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	2.9	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	Q_{HE}	4202	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	lanisa, Turkey
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· 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	e found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

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

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Rated heat output (*)Prated6.0kWSeasonal paper Pating energy efficiency η s188Declared capacity for heating for part load at indoortemperature 20 °C and outdoor temperature T jDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T jT j = -7 °CPdh5.3kWDegradation co-efficient (**)Odh0.99-T j = +2 °CPdh4.8KWDegradation co-efficient (**)Odh0.99-T j = +7 °CPdh4.9KWDegradation co-efficient (**)Odh0.99-T j = +12 °CPdh4.9KWDegradation co-efficient (**)Odh0.97-T j = bivalent temperaturePdh6.0KWT j = operation limit temperaturePdh6.0KWT j = operation limit temperatureCOPd2.74T j = operation limit temperatureT j = 0-Bivalent temperatureT j = 0.015KWT j = operation limit temperatureT j = 0.015Power consumption in modes other than active modeSupplementary heaterOff modePar0.015Other items-Capacity controlvariableSound power level, indoors/outdoorsLCapacity controlQuelecAnnual energy consumptionQuelecAnual energy consumptionQuelecAnual energy consumptionQuelecAnual energy consumptionQuelec </th <th>Unit</th> <th>Value</th> <th>Symbol</th> <th>Item</th> <th>Unit</th> <th>Value</th> <th>Symbol</th> <th>Item</th>	Unit	Value	Symbol	Item	Unit	Value	Symbol	Item
temperature 20 ° C and outdoor temperature T jT j = -7 ° CPdh5.3KNDegradation co-efficient (**)Cdh0.99-T j = + 2 ° CPdh4.8KNDegradation co-efficient (**)Cdh0.99-T j = + 2 ° CPdh4.8KNDegradation co-efficient (**)Cdh0.99-T j = + 7 ° CPdh4.8KNDegradation co-efficient (**)Cdh0.99-T j = + 12 ° CPdh3.0KNDegradation co-efficient (**)Cdh0.97-T j = + 12 ° CPdh3.0KNDegradation co-efficient (**)Pdh6.0KNT j = bivalent temperatureCOPd2.74T j = operation limit temperaturePdh6.0KNT j = operation limit temperatureCOPd2.74T j = operation limit temperature (***)Pdh6.0KNT j = operation limit temperatureCOPd2.74T j = operation limit temperatureToL-30Power consumption in modes other than active modeSupplementary heaterOff modePower0.015Crancease heater modePox0.005Crancease heater modePox0.015Other itemsCapacity controlVariableSound power level, indoors/outdorsLas41 / 54Annual energy consumptionQelec4.000MithNeter heating energy efficiency7 whDelared lo	%	188	η s	5	kW	6.0	Prated	Rated heat output (*)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		ratio for	nary energy			indoor	t load at	Declared capacity for heating for par
Degradationco-efficient (**)Cdh0.99-Tj = + 2 ° CCCOPd4.76Degradationco-efficient (**)Cdh0.99-Tj = + 7 ° CPdh4.9KWTj = + 7 ° CCOPdDegradationco-efficient (**)Cdh0.98-Tj = + 12 ° CCPdh3.0KWDegradationco-efficient (**)Cdh0.97Tj = +12 ° CPdh6.0KWTj = operationImmeraturePdh6.0KWTj = operation limit temperatureCOPd2.74Tj = operationTo immerature (***)Pdh6.0Bivalent temperatureTbiv-10° CReference design conditions for spaceTdesignh-10° CPowerConsumption in modesPdr0.015KWOff modePdr0.015KWType of energy inputElectricalCanacase heater mode0.000KWType of energy inputElectricalCapacity controlvariable2000KWStandby mode Q_{gc} 2000KWCapacity control Q_{ec} 2000KWSound power level, indoors/outdoors L_{gA} 41 / 54dBAAnnual energy consumption Q_{ec} 2000KWDaily electricity consumption Q_{ec} 400KWDaily electricity consumption Q_{ec} 400KWContext detailsVariable800KW <td></td> <td>perature Tj</td> <td>outdoor tem</td> <td>part load at indoor temperature 20 $^\circ$ C and</td> <td></td> <td></td> <td>ture T j</td> <td>temperature 20 °C and outdoor tempera</td>		perature Tj	outdoor tem	part load at indoor temperature 20 $^\circ$ C and			ture T j	temperature 20 °C and outdoor tempera
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	3. 39	COPd	Tj = − 7 ° C	kW	5.3	Pdh	Tj = - 7 ° C
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					-	0.99	Cdh	Degradation co-efficient (**)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	4. 76	COPd	Tj = + 2 ° C	kW	4.8	Pdh	Tj = + 2 ° C
Degradationco-efficient (**)Cdh0.98-Tj = +12 ° CPdh3.0kWTj = +12 ° CCOPd6.52Degradationco-efficient (**)Cdh0.97-TTj = bivalent temperaturePdh6.0KWTj = bivalent temperatureCOPd2.74Tj = operation limit temperature (***)Pdh6.0KWTj = operation limit temperatureCOPd2.74Bivalent temperatureTbiv-10° COperation limit temperatureTOL-30Reference design conditions for spaceTdesignh-10° CHeating water operating limitWTOL60Powerconsumptionin modesotherno0.015kWRated heat output (*)Psup0.0PowerconsumptionPage0.015kWType of energy inputElectricalCrankcase heatermodePox0.000kWhPage2220Sound power level, indoors/outdoorsLas41 / 54dBAAnnual energy consumption-2220Sound power level, indoors/outdoorsLas41 / 54dBAWater heating energy efficiency7 wh134Porteriotity consumptionQele4.000kWhWater heating energy efficiency7 wh134Contact detailsContact detailsS800kWhContact detailsContact detailsContact details					-	0.99	Cdh	Degradation co-efficient (**)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	5.90	COPd	Tj = + 7 ° C	kW	4. 9	Pdh	Tj = + 7 ° C
Degradation co-efficient (**)Cdh 0.97 F-Tj = bivalent temperaturePdh 6.0 kWTj = bivalent temperatureOOPd 2.74 Tj = operation limit temperature (***)Pdh 6.0 kWTj = operation limit temperature (***)COPd 2.74 Bivalent temperatureTbiv -10 ° COperation limit temperature (***)COPd 2.74 Bivalent temperatureTbiv -10 ° COperation limit temperature (***)TOL -30 Reference design conditions for spaceTdesignh -10 ° CHeating water operating limitWTOL 60 Power consumption in modes other than active modeSupplementary heaterSupplementary heaterSupplementary heater $Rated heat output (*)$ Psup 0.0 Thermostat-off mode P_{0FF} 0.015 kWType of energy inputElectricalCrankcase heater mode P_{0K} 0.000 kWType of energy inputElectricalOther itemsCapacity controlvariable air $flow$ rate, outdoors $ 2220$ Sound power level, indoors/outdoors L_{M} $41/54$ dBA $Airairairnual energy efficiencynwh134Daily electricity consumptionAEC880kWhWater heating energy efficiencynwh134$					-	0. 98	Cdh	Degradation co-efficient (**)
Tj = bivalent temperaturePdh6.0kWTj = bivalent temperatureOOPd2.74Tj = operation limit temperature (****)Pdh6.0kWTj = operation limit temperature (****)OOPd2.74Bivalent temperatureTbiv-10° COperation limit temperature (****)OOPd2.74Bivalent temperatureTbiv-10° COperation limit temperature (****)OOPd2.74Bivalent temperatureToiv-10° COperation limit temperatureTOL-30Reference design conditions for spaceTdesignh-10° CHeating water operating limitWTOL60Power consumption in modes other than active modeSupplementary heaterSupplementary heater000.01FWThermostat-off modePor0.015kWRated heat output (*)Psup0.0FeatureCrankcase heater modePox0.000kWType of energy inputElectricalCapacity controlvariableSecond-2220Sound power level, indoors/outdoorsLw,41 / 54dBAAnnual energy consumption-2220For heat pump combination heater:Declared load profileLWater heating energy efficiency7 wh134Daily electricity consumptionQelec4.000kWhKWhContact details70 kW	-	6. 52	COPd	Tj = +12 ° C	kW	3.0	Pdh	Tj = +12 ° C
Tj = operation limit temperature (***)Pdh6.0kWTj = operation limit temperature (***)COPd2.74Bivalent temperature heatingToiv-10° COperation limit temperatureTOL-30Reference design conditions for space heatingTdesignh-10° CHeating water operating limit temperatureTOL-30Power consumption in modes other than active modeSupplementary heater6060Off mode Thermostat-off modePorF0.015kWRated heat output (*)Psup0.0Standby mode Crankcase heater modePos0.000kWType of energy inputElectricalOther itemsCapacity control Sound power level, indoors/outdoors Annual energy consumption Daily electricity consumption $Qelec$ 4.000Rated air flow rate, outdoors kWh-2220For heat pump combination heater:Declared load profile Delared load profileL Mater heating energy efficiency η wh134Contact detailsAEC880kWhKWhKWhKWhKWh					-	0.97	Cdh	Degradation co-efficient (**)
Bivalent temperature heating Tbiv Tdesignh -10 ° C r Operation limit temperature Heating water operating limit temperature TOL -30 Power consumption in modes other than active mode ° C ° C Heating water operating limit temperature TOL -30 Power consumption in modes other than active mode 0.015 kW Supplementary heater Supplementary heater Off mode PorF 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode Por 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA - - 2220 For heat pump combination heater: Declared load profile L Water heating energy efficiency 7,wh 134 Daily electricity consumption Qelec 4.000 kWh KWh Contact details - 2220	-	2. 74	COPd	Tj = bivalent temperature	kW	6. 0	Pdh	Tj = bivalent temperature
Reference design conditions for space heatingTdesignh-10° CHeating water operating limit temperatureWTOL60Power consumption in modes other than active modeOff modePorF0.015kWSupplementary heaterSupplementary heaterOff modePorF0.015kWRated heat output (*)Psup0.0Thermostat-off modePor0.015kWType of energy inputElectricalCrankcase heater modePor0.000kWType of energy inputElectricalOther itemsCapacity controlvariableRated air flow rate, outdoors-2220Sound power level, indoors/outdoorsLmA41 / 54dBAKWhFor heat pump combination heater:-2220Declared load profileLLWater heating energy efficiency η wh134Daily electricity consumptionQelec4.000kWhKWhContact detailsSasokWh	-	2. 74	COPd	Tj = operation limit temperature (***)	kW	6. 0	Pdh	Tj = operation limit temperature (***)
Reference design conditions for space heatingTdesignh-10° CHeating water operating limit temperatureWTOL60Power consumption in modes other than active modeOff modePorF0.015kWSupplementary heaterSupplementary heaterOff modePorF0.015kWRated heat output (*)Psup0.0Thermostat-off modePor0.015kWType of energy inputElectricalCrankcase heater modePor0.000kWType of energy inputElectricalOther itemsCapacity controlvariableRated air flow rate, outdoors-2220Sound power level, indoors/outdoorsLmA41 / 54dBAKWhFor heat pump combination heater:-2220Declared load profileLLWater heating energy efficiency η wh134Daily electricity consumptionQelec4.000kWhKWhContact detailsSasokWh								
heatingIdesign-10Ctemperaturewith60Power consumption in modes other than active modeSupplementary heaterSupplementary heaterOff modePorf0.015kWThermostat-off modePro0.015kWStandby modePsg0.015kWCrankcase heater modePox0.000kWOther itemsCapacity controlvariableRated air flow rate, outdoors-Sound power level, indoors/outdoorsL _{MA} 41 / 54dBAAnnual energy consumption-2220For heat pump combination heater:Declared load profileLWater heating energy efficiency η wh134Daily electricity consumptionQelec4.000kWhKWhContact details	°C	-30	TOL	Operation limit temperature	°C	-10	Tbiv	Bivalent temperature
Power consumption in modes other than active mode Supplementary heater Off mode PoFF 0.015 kW Thermostat-off mode Pro 0.015 kW Standby mode PsB 0.015 kW Crankcase heater mode PoK 0.000 kW Other items 0.000 kW Type of energy input Electrical Capacity control variable said - 2220 Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA dBA Annual energy consumption Q _{HE} 2600 kWh Water heating energy efficiency η wh 134 Daily electricity consumption Qelec 4.000 kWh KWh Contact details - 2220	°C	60	WTOL		°C	-10	Tdes i gnh	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Supplementary heater		de	active mo	Power consumption in modes other than
Standby mode P_{SB} 0.015 kWType of energy inputElectricalCrankcase heater mode P_{CK} 0.000 kWType of energy inputElectricalOther items 0.000 kWRated air flow rate, outdoors $-$ 2220Sound power level, indoors/outdoors L_{MA} $41/54$ dBA $-$ 2220Sound power level, indoors/outdoors L_{MA} $41/54$ dBA $ 2220$ For heat pump combination heater: 0.000 kWh $ 134$ Declared load profileLWater heating energy efficiency η wh 134 Daily electricity consumptionQelec 4.000 kWh kWh $-$ Contact details $ -$	kW	0.0	Psup	Rated heat output (*)	kW	0. 015	P _{0FF}	Off mode
Crankcase heater mode P _{OK} 0.000 kW Other items Capacity control variable Rated air flow rate, outdoors - 2220 Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA - 2220 Annual energy consumption Q _{HE} 2600 kWh - 2220 For heat pump combination heater: Declared load profile L Water heating energy efficiency 7 wh 134 Daily electricity consumption Qelec 4.000 kWh KWh - - - Contact details S80 kWh - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -					kW	0.015	P _{T0}	Thermostat-off mode
Other items Variable Rated air flow rate, outdoors 2220 Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA - 2220 Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA - 2220 Annual energy consumption Q _{HE} 2600 kWh - 2220 For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 134 Daily electricity consumption Qelec 4.000 kWh KWh - - Contact details Gottact details - - - - -		Electrical		Type of energy input	kW	0.015	P _{SB}	Standby mode
Capacity control variable Rated air flow rate, outdoors 2220 Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA Annual energy consumption Q _{HE} 2600 kWh For heat pump combination heater: Declared load profile L Daily electricity consumption Qelec 4.000 kWh Annual electricity consumption AEC 880 kWh					kW	0.000	Рск	Crankcase heater mode
Capacity control Variable 2220 Sound power level, indoors/outdoors L_{WA} $41 / 54$ dBA Annual energy consumption Q_{HE} 2600 kWh For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 134 Daily electricity consumption Qelec 4.000 kWh KWh Contact details								Other items
Annual energy consumption Q _{HE} 2600 kWh For heat pump combination heater: Declared load profile Daily electricity consumption Qelec 4.000 kWh Annual electricity consumption AEC 880 kWh	m³/h	2220	-	Rated air flow rate, outdoors		variable		Capacity control
For heat pump combination heater: Declared load profile L Daily electricity consumption Qelec Annual electricity consumption AEC 880 kWh					dBA	41 / 54	L _{WA}	Sound power level, indoors/outdoors
Declared load profile L Water heating energy efficiency η wh 134 Daily electricity consumption Qelec 4.000 kWh Annual electricity consumption AEC 880 kWh Contact details Contact details Contact details					kWh	2600	Q_{HE}	Annual energy consumption
Daily electricity consumption Qelec 4.000 kWh Annual electricity consumption AEC 880 kWh Contact details Contact details Contact details								For heat pump combination heater:
Annual electricity consumption AEC 880 kWh Contact details	%	134	η wh	Water heating energy efficiency		L		Declared load profile
Contact details					kWh	4.000	Qelec	Daily electricity consumption
					kWh	880	AEC	Annual electricity consumption
					·			Contact details
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Man	isa, Turkey	9 Yunusemre – Man	lu Bulvari No:1					
The identification and signature of the person empowered to bind the supplier; Kenichi SAITO					to bind the	empowered t	ne person	The identification and signature of the
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY					re section.	um-temperatu	mate / mediu	The signature is signed in the average cli
· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.				installation and or operation manuals.	found in the	embly can be	ance and asse	· Details and precautions on installation, maintena

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

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	116	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = − 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0.015	kW	Rated heat output (*)	Psup	2.0	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}	4960	k₩h				
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	NUFACTURING T	URKEY JOINT S	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ie person	empowered	to bind the				
The signature is signed in the average cli	nate / mediu	ım-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
				TURKEY			
· Details and precautions on installation, maintena	nce and asso	embly can be	found in the				
· Details and precautions on recycling and/or disp	oosal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	2. 9	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}	4168	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
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comporatu		TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or disp	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	165	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 16	-
Degradation co-efficient (**)	Cdh	0. 98	-			. <u> </u>	
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
			-			. <u> </u>	
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		1 1	
Off mode	P _{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	Q_{HE}	1914	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	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of the	ie person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Details and precautions on installation, maintena Details and precautions on recycling and/or dis		,		installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	6.0	kW	Seasonal space heating energy efficiency	η s	231	%
: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	6. 0	kW	Tj = + 2 ° C	COPd	3.80	-
Cdh	0.99	_				
Pdh	4.4	kW	Tj = + 7 ° C	COPd	5. 10	-
Cdh	0. 98	_				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-
Cdh	0. 98	_				
Pdh	6. 0	kW	Tj = bivalent temperature	COPd	3.80	-
Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-
		-				
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{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				
\mathbf{Q}_{HE}	1371	kWh				
			•			
	L		Water heating energy efficiency	η wh	135	%
Qelec	3. 850	kWh				
AEC	846	kWh				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
ie person	empowered	to bind the				
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
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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-SHWM60VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	131	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5.87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{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	Q_{HE}	3706	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 – M	anisa, Turkey
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百藤健一				Kenichi SAITO Manager, Quality Assuarance Department			
12 1971 DE -				Manager, Quality Assuarance Department TURKEY			
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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-SHWM6OVAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	188	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	3. 39	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.8	kW	Tj = + 2 ° C	COPd	4. 76	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.9	kW	Tj = + 7 ° C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0. 98	-			I	
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2. 74	-
Tj = operation limit temperature (***)	Pdh	6.0	kW	Tj = operation limit temperature (***)	COPd	2. 74	-
			Į			I	
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		II	
Off mode	P _{0FF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW			1	
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items			II.				
Capacity control		variable		Rated air flow rate, outdoors	_	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	2600	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh			<u> </u>	
Annual electricity consumption	AEC	898	kWh				
Contact details			<u> </u>				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	ANUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
· Details and precautions on installation, maintena		,					

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	116	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = − 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0.015	kW	Rated heat output (*)	Psup	2. 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}	4960	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	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
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The signature is signed in the average clin	nate / medit	um comperatu		TURKEY			
· Details and precautions on installation, maintena	nce and ass	embly can be	found in the				
· Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7. 56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0.015	kW	Rated heat output (*)	Psup	2.9	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}	4168	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	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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· Details and precautions on installation, maintena	nce and asso	embly can be	found in the				
· Details and precautions on recycling and/or dis							

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Rated heat output (*)	Durit						
	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	165	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 16	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{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}	1914	k₩h				
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	k₩h				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	anisa, Turkey
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 \cdot Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	6.0	kW	Seasonal space heating energy efficiency	η s	231	%
: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	6. 0	kW	Tj = + 2 ° C	COPd	3.80	-
Cdh	0.99	_				
Pdh	4.4	kW	Tj = + 7 ° C	COPd	5. 10	-
Cdh	0. 98	_				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-
Cdh	0. 98	_				
Pdh	6. 0	kW	Tj = bivalent temperature	COPd	3.80	-
Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-
		-				
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{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				
\mathbf{Q}_{HE}	1371	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
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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-SHWM60VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	129	%
Declared capacity for heating for part	: load at	indoor	1	Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5. 87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{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}	3761	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
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百藤建一				Kenichi SAITO Manager, Quality Assuarance Department			
17 MULE DE -				TURKEY			
· Details and precautions on installation maintena	nee and eee	ambly can be	found in the	-			

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	115	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = − 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P_{0FF}	0.015	kW	Rated heat output (*)	Psup	2.0	kW
Thermostat-off mode	P _{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	Q _{HE}	4993	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	lanisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section	Manager, Quality Assuarance Department			
	,			TURKEY			
· Details and precautions on installation, maintena	ance and ass	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	138	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	2. 9	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}	4202	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	k₩h				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comporatu		TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	159	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperature T j				part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 16	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		II	
Off mode	P _{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}	1980	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 - M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Details and precautions on installation, maintena Details and precautions on recycling and/or dis		,		installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

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

· 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.