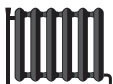




ENERG  
енергия · ενεργεια



Indoor unit E\*ST20D-\*\*\*\*D  
Outdoor unit PUZ-SHWM140VAA



A+++

A++

A+

A

B

C

D

A++



A+

A

B

C

D

E

F

A+



41 dB



58 dB



- 14 kW
- 14 kW
- 14 kW

2019

811/2013

DG79V341H17

## 1.SPACE HEATER

SPACE HEATER		For medium-temperature application															For low-temperature application														
1	2	3	6	8	11	9	13	15	16	21	22	17	18	25	4	6	8	11	9	13	15	16	21	22	17	18	25				
Outdoor unit	Indoor unit	Medium-temperature application															Low-temperature application														
		Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L <sub>WA</sub> , indoor	Rated heat output under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L <sub>WA</sub> , indoor	Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L <sub>WA</sub> , indoor	Rated heat output under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L <sub>WA</sub> , outdoor						
PUZ-SWM60VAA	EHS-****D	✓	A++	6	126	3834	41	6	6	111	150	5181	2093	54	✓	A+++	6	181	2701	41	6	6	135	208	4284	1519	54				
	ERSD-****D	✓	A++	6	128	3779	41	6	6	112	155	5147	2027	54	✓	A+++	6	184	2646	41	6	6	136	218	4251	1453	54				
PUZ-SWM80VAA	EHS-****D	✓	A++	8	129	5016	41	8	8	111	162	6890	2584	54	✓	A+++	8	181	3599	41	8	8	141	219	5460	1928	54				
	ERSD-****D	✓	A++	8	130	4961	41	8	8	112	167	6857	2517	54	✓	A+++	8	184	3543	41	8	8	142	227	5427	1862	54				
PUZ-SWM80YAA	EHS-****D	✓	A++	8	128	5053	41	8	8	111	160	6923	2629	54	✓	A+++	8	179	3636	41	8	8	141	214	5493	1973	54				
	ERSD-****D	✓	A++	8	130	4972	41	8	8	112	166	6875	2532	54	✓	A+++	8	183	3555	41	8	8	142	225	5444	1876	54				
PUZ-SWM100VAA	EHS-****D	✓	A++	10	132	6106	41	10	10	109	156	8813	3362	58	✓	A+++	10	178	4564	41	10	10	147	223	6575	2369	58				
	ERSD-****D	✓	A++	10	134	6051	41	10	10	109	159	8780	3296	58	✓	A+++	10	180	4509	41	10	10	147	229	6555	2302	58				
PUZ-SWM100YAA	EHS-****D	✓	A++	10	132	6141	41	10	10	109	154	8840	3405	58	✓	A+++	10	177	4600	41	10	10	146	219	6601	2411	58				
	ERSD-****D	✓	A++	10	133	6061	41	10	10	109	159	8791	3308	58	✓	A+++	10	180	4519	41	10	10	147	228	6565	2314	58				
PUZ-SWM120VAA	EHS-****D	✓	A++	12	131	7450	41	12	12	109	154	10673	4115	58	✓	A+++	12	177	5566	41	12	12	141	221	8290	2882	58				
	ERSD-****D	✓	A++	12	132	7395	41	12	12	109	157	10640	4049	58	✓	A+++	12	178	5511	41	12	12	141	227	8257	2816	58				
PUZ-SWM120YAA	EHS-****D	✓	A++	12	131	7485	41	12	12	109	153	10698	4157	58	✓	A+++	12	176	5600	41	12	12	140	218	8316	2922	58				
	ERSD-****D	✓	A++	12	132	7404	41	12	12	109	156	10649	4060	58	✓	A+++	12	178	5520	41	12	12	141	226	8267	2825	58				
PUZ-SWM140VAA	EHS-****D	✓	A++	14	134	8438	41	14	14	104	150	12843	4893	58	✓	A+++	14	175	6483	41	14	14	132	219	10250	3367	58				
	ERSD-****D	✓	A++	14	135	8383	41	14	14	105	152	12810	4826	58	✓	A+++	14	177	6428	41	14	14	132	224	10217	3301	58				
PUZ-SWM140YAA	EHS-****D	✓	A++	14	134	8473	41	14	14	104	149	12867	4934	58	✓	A+++	14	175	6517	41	14	14	131	217	10275	3407	58				
	ERSD-****D	✓	A++	14	135	8392	41	14	14	105	152	12819	4837	58	✓	A+++	14	177	6437	41	14	14	132	223	10226	3310	58				
PUZ-SHWM60VAA	EHS-****D	✓	A++	6	129	3761	41	6	6	115	159	4993	1980	54	✓	A+++	6	184	2655	41	6	6	138	220	4202	1437	54				
	ERSD-****D	✓	A++	6	131	3706	41	6	6	116	165	4960	1914	54	✓	A+++	6	188	2600	41	6	6	139	231	4168	1371	54				
PUZ-SHWM80VAA	EHS-****D	✓	A++	8	132	4904	41	8	8	115	167	6705	2521	54	✓	A+++	8	184	3530	41	8	8	146	225	5299	1874	54				
	ERSD-****D	✓	A++	8	133	4849	41	8	8	115	171	6672	2454	54	✓	A+++	8	187	3475	41	8	8	147	233	5266	1808	54				
PUZ-SHWM80YAA	EHS-****D	✓	A++	8	131	4941	41	8	8	114	164	6737	2566	54	✓	A+++	8	182	3568	41	8	8	145	220	5332	1920	54				
	ERSD-****D	✓	A++	8	133	4860	41	8	8	115	170	6689	2469	54	✓	A+++	8	187	3487	41	8	8	146	232	5284	1823	54				
PUZ-SHWM100VAA	EHS-****D	✓	A++	10	136	5936	41	10	10	116	164	8272	3204	58	✓	A+++	10	183	4444	41	10	10	149	236	6480	2233	58				
	ERSD-****D	✓	A++	10	138	5881	41	10	10	117	167	8239	3138	58	✓	A+++	10	185	4389	41	10	10	150	244	6447	2167	58				
PUZ-SHWM100YAA	EHS-****D	✓	A++	10	135	5972	41	10	10	116	162	8298	3246	58	✓	A+++	10	181	4480	41	10	10	149	232	6508	2276	58				
	ERSD-****D	✓	A++	10	137	5891	41	10	10	117	167	8250	3149	58	✓	A+++	10	185	4399	41	10	10	150	242	6459	2179	58				
PUZ-SHWM120VAA	EHS-****D	✓	A++	12	136	7169	41	12	12	117	161	9902	3952	58	✓	A+++	12	179	5481	41	12	12	149	232	7843	2753	58				
	ERSD-****D	✓	A++	12	138	7114	41	12	12	118	163	9869	3886	58	✓	A+++	12	181	5426	41	12	12	150	238	7810	2687	58				
PUZ-SHWM120YAA	EHS-****D	✓	A++	12	136	7204	41	12	12	117	159	9927	3995	58	✓	A+++	12	178	5516	41	12	12	149	238	7868	2793	58				
	ERSD-****D	✓	A++	12	137	7123	41	12	12	118	163	9878	3898	58	✓	A+++	12	181	5435	41	12	12	150	237	7819	2696	58				
PUZ-SHWM140VAA	EHS-****D	✓	A++	14	141	8021	41	14	14	115	156	11650	4715	58	✓	A+++	14	183	6227	41	14	14	153	225	8841	3219	58				
	ERSD-****D	✓	A++	14	142	7965	41	14	14	116	158	11617	4649	58	✓	A+++	14	184	6172	41	14	14	154	230	8807	3272	58				
PUZ-SHWM140YAA	EHS-****D	✓	A++	14	141	8055	41	14	14	115	154	11674	4757	58	✓	A+++	14	182	6262	41	14	14	153	222	8865	3319	58				
	ERSD-****D	✓	A++	14	142	7974	41	14	14	116	158	11625	4659	58	✓	A+++	14	184	6181	41	14	14	154	229	8816	3222	58				



	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Português	Ελληνικά
	suomi	Čeština	Български	Polski	Ελληνικά
	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
1	Building	Umlüftung	Unité enlief	unidad exterior	Εξωτερική μονάδα
	Ulkokotelo	Ventiloini	Вентилятор	jednostka zewnętrzna	-
2	Indoor unit	Innengerät	unité intérieure	unità interna	unidad interior
	sisäyksikö	Innenkühler	Inducteur enlief	intende interior	Εσωτερική μονάδα
	Sisäyksikö	Ventilijedotika	Вентилятор	Jednostka wewnętrzna	-
	Medium-temperature application	Mitteltemperaturanwendung	l'application à moyenne température	la aplicación a media temperatura	la aplicación de media temperatura
3	medium-temperature-boasting	medium-temperatureapplikation	middletemperaturalveneläsen	a aplicación a media temperatura	η εφαρμογή σε μέση θερμοκρασία
	Keskilämpötilan sovellus	Středněteplotní aplikace	среднотемпературного применения	zastosowanie w średniej temperaturze	η εφαρμογή σε μέση θερμοκρασία
4	Low-temperature application	Niedertemperaturanwendung	l'application à basse température	la aplicación a bassa temperatura	la aplicación de baja temperatura
	alagentalämpötilan sovellus	Niedertemperaturapplikation	l'application à basse température	a aplicación a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
5	Decided load profile	Ausgewiesenes Lastprofil	Profil de soudeage decalé	Profilo di carico sfalsato	Período de carga desfasado
	Säreggeven lastprofili	Deklarerat belastningsprofil	Ардулет товарного профиля	Período de carga deslocado	Διευθετικό προφίλ φορτίου
	Ilmoitettu kuormitusprofiili	Deklarovaný zatěžovací profil	Объявлен товарный профиль	Declaração do perfil de carga	-
	Seasonal space heating energy efficiency class	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	A classe de eficiência energética sazional de aquecimento de ambiente	la classe de eficiência energética sazional de calefacción
6	de seizoenvergoeden energie-efficiëntieklasse voor ruimteverwarming	saisonsgesetzte energieeffizienzklass für raumunverwarming	la classe d'efficacité énergétique avec pompage	A classe de eficiência energética do aquecimento ambiente sazonal	η τήξη ενεργειακής απόδοσης της εποχιακής θερμότητας χώρου
	Iltaimittimykseen kuusutalinen energiatilokkuluksilmassto-dosulheissa	Imenoviy lereplyy ukoniza ruimenykh klimaticheskoy rodnihek	класс на сезонная отопительная энергия эффективност	klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń	η εφαρμογή σε εποχιακή θερμοκρασία χώρου
	Water heating energy efficiency class	die Klasse für die Warmwasserbereitungs-Energieeffizienz	la classe d'efficacité énergétique, pour le chauffage de l'eau	la classe de eficiência energética del riscaldamento dell'acqua	la clase de eficiencia energética del calefao de agua
7	de energie-efficiëntieklasse voor waterverwarming	energieeffizienzklass für wasserunverwarming	класс на энергияна ефективност при подгреване на вода	Klaza efektywności energetycznej podgrzewania wody	-
	veelaimittimykseen energiatilokkuluksiluksika	Ита енергетика, дімност, отлеу, воду	класс на энергияна ефективност при подгреване на вода	klasa efektywności energetycznej podgrzewania wody	-
8	Rated heat output under average climate conditions	die Warmtemleistung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potencia calorífica nominal (en condiciones climáticas medias)
	de nominale warmteafgite (onder gemiddelde klimaatomstandigheden)	Den nominella värmans värmeafekt (under genomsnittliga klimatförhållanden)	den nominelle puissance (under gemetensnillige klimatofid)	A potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Ilmestilamittimykseen keskimääräisissä ilmast-oosuhteissa	Imenoviy lereplyy ukoniza ruimenykh klimaticheskoy rodnihek	номиналната топлинна мощност (при средни климатични условия)	A potência calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	For space heating, annual energy consumption under average climate conditions	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'énergie (dans les conditions climatiques moyennes)	para o aquecimento de água, o consumo anual de electricidade em condições climáticas m	para calefina, água, el consumo anual de electricidad en condiciones climáticas más altas
10	voor waterverwarming, het jaarlijkse elektriciteitsverbruik (onder gemiddelde klimaatomstandigheden)	For waterunverwarming, ätlg elförbrukning vid genomsnittliga klimatförhållanden	for vandorvarming det ätlge elforbrug under gennemsnitlige klimatforhold	para o aquecimento de água, o consumo anual de electricidade em condições climáticas m	para calefina, água, el consumo anual de electricidad en condiciones climáticas más altas
	veelaimittimyksestä vuotuisen sähkökuluks (keskimääräisissä ilmast-oosuhteissa)	pro otlevy vodu – rotni sprotava elektriske energe za prometych klimaticheskoy rodnihek	за подгреване на вода, годишното потребление (при средни климатични условия)	para o aquecimento de água, o consumo anual de electricidade em condições climáticas m	para calefina, água, el consumo anual de electricidad en condiciones climáticas más altas
	Seasonal space heating energy efficiency under average climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux (dans les conditions climatiques moyennes)	l'eficacia energética sazional de aquecimento de ambiente (em condições climáticas médias)	la eficiencia energética estacional de calefacción en condiciones climáticas medias
11	de seizoenvergoeden energie-efficiëntie voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	Saisonsgesetze effizienzklass für raumunverwarming vid genomsnittliga klimatförhållanden	l'efficacité énergétique avec pompage	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Iltaimittimykseen kuusutalinen energiatilokkuluks (keskimääräisissä ilmast-oosuhteissa)	sezonni energetická účinnost vytápění za průměrných klimatických podmínek	класс на энергияна ефективност при отопление (при средни климатични условия)	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Water heating energy efficiency under average climate conditions	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau (dans les conditions climatiques moyennes)	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
12	de energie-efficiëntie voor waterverwarming (onder gemiddelde klimaatomstandigheden)	Energieffektivitet vid vaterunverwarming (vid genomsnittliga klimatförhållanden)	energiefektivitet ved vandorvarming (under gennemsnitlige klimatforhold)	a eficiencia energética do aquecimento de água (em condições climáticas médias)	η ενεργειακή απόδοση θερμότητας, υερμού (στο μέσο κλιματικό, ουυθής)
	veelaimittimykseen energiatilokkuluks (keskimääräisissä ilmast-oosuhteissa)	energetická účinnost ohřevu vody za průměrných klimatických podmínek	енергияна ефективност при подгреване на вода (при средни климатични условия)	efektywność energetyczna podgrzewania wody (w warunkach klimatu umiarkowanego)	η ενεργειακή απόδοση θερμότητας, υερμού (στο μέσο κλιματικό, ουυθής)
13	Sound power level L <sub>WA</sub> indoor	der Schalleistungspegel L <sub>WA</sub> in Gebäuden	le niveau de puissance acoustique L <sub>WA</sub> à l'intérieur	el livello di potenza sonora L <sub>WA</sub> all'interno	el nivel de potencia acústica L <sub>WA</sub> en interiores
	het geluidswaarnemingsniveau L <sub>WA</sub> binnen	Ludeffektivitet L <sub>WA</sub> i inomhus	уровнеиетивет L <sub>WA</sub> i inde	O nível de potência sonora L <sub>WA</sub> no interior	η στάθμη ηχητικής ισχύος L <sub>WA</sub> εσωτερικού χώρου
	Ääniteho L <sub>WA</sub> sisällä	hadina akustického výkonu L <sub>WA</sub> ve vnitřním prostoru	инвого на звукова мощност L <sub>WA</sub> на задрото	rodum pouz akustického výkonu v romieszczeniu	η στάθμη ηχητικής ισχύος L <sub>WA</sub> εσωτερικού χώρου
14	Work only during off-peak hours	dieses Arbeitsunde unter perioden nied lag belasting	l'usage iden for spidsbelastningsperioder	l'usage soltanto durante le ore notie	η χρήση solamente durante las horas de baja demanda
	Werket uitsluitend in de daluren	provoz pouze mimo špičku	работи само в часовые иванн взрхового неговарване	de tiposet angsamente fora das horas de pico	η χρήση μόνο εκτός των ωρών αιχμής
	komman anovaan kuluksurpuen ukorouella	die Warmtemleistung bei kaltem Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia termica nominal (em condições climáticas mais frias)	la potencia calorífica nominal en condiciones climáticas más frías
15	Rated heat output under colder climate conditions	die Warmtemleistung bei kaltem Klimaverhältnissen	den nominelle puissance nominale, dans les conditions climatiques plus froides	A potencia calorífica nominal (em condições climáticas mais frias)	η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές ουυθής
	de nominale warmteafgite, onder koudere klimaatomstandigheden	Nominel ägven värmeafekt vid kallare klimatförhållanden	den nominelle puissance nominale under kouere klimatofid	znatnoma pouz sferlym v wariakich klimatu chłodnego	η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές ουυθής
	Ilmestilamittimykseen kylmissä ilmast-oosuhteissa	Imenoviy lereplyy ukon za chladnějších klimaticheskoy podmínek	номиналната топлинна мощност при по-студени климатични условия	la potencia calorífica nominal em condições climáticas mais frias	la potencia calorífica nominal en condiciones climáticas más calidas
	Rated heat output under warmer climate conditions	die Warmtemleistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus chaudes	A potencia calorífica nominal (em condições climáticas mais quentes)	η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές ουυθής
16	de nominale warmteafgite, onder warmere klimaatomstandigheden	Nominel ägven värmeafekt vid varmare Klimaverhältnissen	den nominelle puissance nominale, dans les conditions climatiques plus chaudes	la potencia calorífica nominal em condições climáticas mais quentes	η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές ουυθής
	Ilmestilamittimykseen lämpimissä ilmast-oosuhteissa	Imenoviy lereplyy ukon za teplejší klimaticheskoy podmínek	номиналната топлинна мощност при по-топли климатични условия	znatnoma pouz sferlym v wariakich klimatu cieplego	η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές ουυθής
	For space heating, annual energy consumption under colder climate conditions	für die Raumheizung, der jährliche Energieverbrauch bei kaltem Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	para o aquecimento de ambiente, o consumo anual de energia in condições climáticas mais frias	para calefina, água, el consumo anual de energia en condiciones climáticas más frías
17	voor ruimteverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	For raumunverwarming, ätlg elförbrukning under kallare klimatförhållanden	for timorvarming det ätlge elforbrug under koldere klimatforhold	para o aquecimento de ambiente, o consumo anual de energia em condições climáticas mais frias	para calefina, água, el consumo anual de energia en condiciones climáticas más frías
	Iltaimittimyksestä vuotuisen energiatilokkuluks kylmissä ilmast-oosuhteissa	pro vytápění – rotni sprotava energe za chladnější klimaticheskoy podmínek	за отопление, годишното потребление на енергия при по-топли климатични условия	para o aquecimento de ambiente, o consumo anual de energia em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
	For space heating, annual energy consumption under warmer climate conditions	für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	para o aquecimento de ambiente, o consumo anual de energia em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
18	voor ruimteverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	For raumunverwarming, ätlg elförbrukning under varmare klimatförhållanden	for timorvarming det ätlge elforbrug under koldere klimatforhold	para o aquecimento de ambiente, o consumo anual de energia em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
	Iltaimittimyksestä vuotuisen energiatilokkuluks lämpimissä ilmast-oosuhteissa	pro vytápění – rotni sprotava energe za teplejší klimaticheskoy podmínek	за отопление, годишното потребление на енергия при по-топли климатични условия	para o aquecimento de ambiente, o consumo anual de energia em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
	For water heating, annual energy consumption under colder climate conditions	für die Warmwasserbereitung, der jährliche Stromverbrauch bei kaltem Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus froides	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
19	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	For waterunverwarming, ätlg elförbrukning under kallare klimatförhållanden	for vandorvarming det ätlge elforbrug under koldere klimatforhold	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
	veelaimittimyksestä vuotuisen sähkökuluks kylmissä ilmast-oosuhteissa	pro otlevy vodu – rotni sprotava elektriske energe za chladnější klimaticheskoy podmínek	за подгреване на вода, годишното потребление на електроенергия при по-студени и климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
	For water heating, annual energy consumption under warmer climate conditions	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus chaudes	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
20	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	For waterunverwarming, ätlg elförbrukning under varmare klimatförhållanden	for vandorvarming det ätlge elforbrug under koldere klimatforhold	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
	veelaimittimyksestä vuotuisen sähkökuluks lämpimissä ilmast-oosuhteissa	pro otlevy vodu – rotni sprotava elektriske energe za teplejší klimaticheskoy podmínek	за подгреване на вода, годишното потребление на електроенергия при по-топли климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefina, água, el consumo anual de electricidad en condiciones climáticas más frías
	Seasonal space heating energy efficiency under colder climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kaltem Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides	la potencia calorífica nominal (em condições climáticas médias)	la eficiencia energética estacional de calefacción en condiciones climáticas más frías
21	de seizoenvergoeden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Saisonsgesetze effizienzklass für raumunverwarming under kallare klimatförhållanden	l'efficacité énergétique avec pompage	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Iltaimittimykseen kuusutalinen energiatilokkuluks kylmissä ilmast-oosuhteissa	sezonni energetická účinnost vytápění za chladnějších klimaticheskoy podmínek	класс на энергияна ефективност при отопление при по-студени климатични условия	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Seasonal space heating energy efficiency under warmer climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
22	de seizoenvergoeden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Saisonsgesetze effizienzklass für raumunverwarming under varmare klimatförhållanden	l'efficacité énergétique avec pompage	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Iltaimittimykseen kuusutalinen energiatilokkuluks lämpimissä ilmast-oosuhteissa	sezonni energetická účinnost vytápění za teplejší klimaticheskoy podmínek	класс на энергияна ефективност при отопление при по-топли климатични условия	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Water heating energy efficiency under colder climate conditions	die Warmwasserbereitungs-Energieeffizienz bei kaltem Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό, ουυθής)
23	de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	Energieffektivitet vid vaterunverwarming under kallare klimatförhållanden	energiefektivitet ved vandorvarming under koldere klimatforhold	a eficiencia energética do aquecimento de água em condições climáticas mais frias	η ενεργειακή απόδοση της θερμότητας, υερμού υπό ψυχρότερες κλιματικές ουυθής
	veelaimittimykseen energiatilokkuluks kylmissä ilmast-oosuhteissa	energetická účinnost ohřevu vody za chladnější klimaticheskoy podmínek	енергияна ефективност при подгреване на вода при по-студени климатични условия	a eficiencia energética do aquecimento de água em condições climáticas mais frias	η ενεργειακή απόδοση της θερμότητας, υερμού υπό ψυχρότερες κλιματικές ουυθής
	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	a eficiencia energética do aquecimento de água em condições climáticas mais frias	η ενεργειακή απόδοση της θερμότητας, υερμού υπό ψυχρότερες κλιματικές ουυθής
24	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energieffektivitet vid vaterunverwarming under varmare klimatförhållanden	energiefektivitet ved vandorvarming under koldere klimatforhold	a eficiencia energética do aquecimento de água em condições climáticas mais frias	η ενεργειακή απόδοση της θερμότητας, υερμού υπό ψυχρότερες κλιματικές ουυθής
	veelaimittimykseen energiatilokkuluks lämpimissä ilmast-oosuhteissa	energetická účinnost ohřevu vody za teplejší klimaticheskoy podmínek	енергияна ефективност при подгреване на вода при по-топли климатични условия	a eficiencia energética do aquecimento de água em condições climáticas mais frias	η ενεργειακή απόδοση της θερμότητας, υερμού υπό ψυχρότερες κλιματικές ουυθής
	Sound power level L <sub>WA</sub> outdoor	der Schalleistungspegel L <sub>WA</sub> im Freien	le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur	el nivel de potencia acústica L <sub>WA</sub> al exterior	η στάθμη ηχητικής ισχύος L <sub>WA</sub> εξωτερικού χώρου
25	het geluidswaarnemingsniveau L <sub>WA</sub> buiten	Ludeffektivitet L <sub>WA</sub> utomhus	уровнеиетивет L <sub>WA</sub> i ute	O nível de potência sonora L <sub>WA</sub> no exterior	η στάθμη ηχητικής ισχύος L <sub>WA</sub> εξωτερικού χώρου
	Ääniteho L <sub>WA</sub> ulkona	hadina akustického výkonu L <sub>WA</sub> ve venkovním prostoru	инвого на звукова мощност L <sub>WA</sub> на открито	rodum pouz akustického výkonu na zemi	-

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	141	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	2.18	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3.49	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

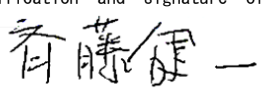
**Other items**

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	8021	kWh				

**For heat pump combination heater:**

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	123	%
Daily electricity consumption	Q <sub>elec</sub>	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

**Contact details**

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The identification and signature of the person empowered to bind the supplier:				Kenichi SAITO			
				Manager, Quality Assurance Department			
				TURKEY			

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

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	183	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	3.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	4.59	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	6.00	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.19	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2.55	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.55	-			
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	6227	kWh	-		2640	m <sup>3</sup> /h			

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	123	%
Daily electricity consumption	Q <sub>elec</sub>	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

**Contact details**

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The identification and signature of the person empowered to bind the supplier;	Kenichi SAITO
The signature is signed in the average climate / medium-temperature section.	Manager, Quality Assurance Department
	TURKEY

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	115	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	8.5	kW	Tj = - 7 °C	COPd	2.63	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	3.49	-
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.92	-
Tj = + 7 °C	Pdh	4.2	kW	Tj = bivalent temperature	COPd	1.53	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.55	-
Tj = +12 °C	Pdh	4.2	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.52	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	10.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	11.4	kW				
Bivalent temperature	Tbiv	-16	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.015	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

**Other items**

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	11650	kWh				

**For heat pump combination heater:**

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	105	%
Daily electricity consumption	Qelec	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				

**Contact details**

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The identification and signature of the person empowered to bind the supplier:	Kenichi SAITO
The signature is signed in the average climate / medium-temperature section.	Manager, Quality Assurance Department
	TURKEY

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	153	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	8.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.65	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.59	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.15	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	8.80	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.03	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-	T <sub>j</sub> = operation limit temperature (***)	COP <sub>d</sub>	1.79	-
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	2.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-	Operation limit temperature	TOL	-30	°C
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
T <sub>j</sub> = operation limit temperature (***)	P <sub>dh</sub>	10.7	kW				
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	11.4	kW				
Bivalent temperature	T <sub>biv</sub>	-16	°C				
Reference design conditions for space heating	T <sub>designh</sub>	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	3.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.015	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	8841	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	105	%
Daily electricity consumption	Q <sub>elec</sub>	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				

**Contact details**

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey
The identification and signature of the person empowered to bind the supplier:	Kenichi SAITO
The signature is signed in the average climate / medium-temperature section.	Manager, Quality Assurance Department
	TURKEY

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

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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



**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	156	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	2.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.27	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.50	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	4715	kWh							

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	130	%
Daily electricity consumption	Qelec	4.030	kWh				
Annual electricity consumption	AEC	888	kWh				

**Contact details**

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(\*\*) 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.



**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	225	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 ° C	Pdh	14.0	kW	Tj = + 2 ° C	COPd	3.24	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	9.0	kW	Tj = + 7 ° C	COPd	5.15	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.1	kW	Tj = +12 ° C	COPd	7.18	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.24	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.24	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	3279	kWh	-						
				2640						
Declared load profile				m <sup>3</sup> /h						
Daily electricity consumption	Q <sub>elec</sub>	4.030	kWh							
Annual electricity consumption	AEC	888	kWh							

Contact details				Mitsubishi Electric Air Conditioning Systems Manufacturing Turkey Joint Stock Company			
				Manisa OSB 4.Kisim Kicilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The identification and signature of the person empowered to bind the supplier:				Kenichi SAITO			
The signature is signed in the average climate / medium-temperature section.				Manager, Quality Assurance Department			
				TURKEY			

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(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	142	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	2.18	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3.49	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

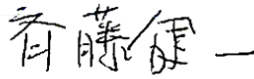
**Other items**

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	7965	kWh				

**For heat pump combination heater:**

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	123	%
Daily electricity consumption	Q <sub>elec</sub>	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

**Contact details**

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				Manager, Quality Assurance Department			
				TURKEY			

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	184	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	3.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	4.59	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	6.00	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.19	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2.55	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.55	-			
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	6172	kWh	-		2640	m <sup>3</sup> /h			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	123	%
Daily electricity consumption	Q <sub>elec</sub>	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The identification and signature of the person empowered to bind the supplier;				Kenichi SAITO			
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				TURKEY			

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(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	116	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	8.5	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.63	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.49	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.40	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.92	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.53	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-	T <sub>j</sub> = operation limit temperature (***)	COP <sub>d</sub>	1.55	-
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	1.52	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-	Operation limit temperature	TOL	-30	°C
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
T <sub>j</sub> = operation limit temperature (***)	P <sub>dh</sub>	10.7	kW				
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	11.4	kW				
Bivalent temperature	T <sub>biv</sub>	-16	°C				
Reference design conditions for space heating	T <sub>designh</sub>	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	3.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.015	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

**Other items**

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	11617	kWh				

**For heat pump combination heater:**

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	105	%
Daily electricity consumption	Q <sub>elec</sub>	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				

**Contact details**

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(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	8.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.65	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.59	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.15	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	8.80	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.03	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-	T <sub>j</sub> = operation limit temperature (***)	COP <sub>d</sub>	1.79	-
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	2.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-	Operation limit temperature	TOL	-30	°C
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
T <sub>j</sub> = operation limit temperature (***)	P <sub>dh</sub>	10.7	kW				
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	11.4	kW				
Bivalent temperature	T <sub>biv</sub>	-16	°C				
Reference design conditions for space heating	T <sub>designh</sub>	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	3.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.015	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

**Other items**

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	8807	kWh				

**For heat pump combination heater:**

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	105	%
Daily electricity consumption	Q <sub>elec</sub>	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				

**Contact details**

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey
The identification and signature of the person empowered to bind the supplier:	Kenichi SAITO
The signature is signed in the average climate / medium-temperature section.	Manager, Quality Assurance Department
	TURKEY

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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



**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	158	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 ° C	Pdh	14.0	kW	Tj = + 2 ° C	COPd	2.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	8.8	kW	Tj = + 7 ° C	COPd	3.27	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.5	kW	Tj = +12 ° C	COPd	5.50	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	4649	kWh	-	2640	m <sup>3</sup> /h				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	130	%
Daily electricity consumption	Qelec	4.030	kWh				
Annual electricity consumption	AEC	888	kWh				

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(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	230	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	3.24	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	5.15	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.1	kW	Tj = +12 °C	COPd	7.18	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.24	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.24	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	3212	kWh	-						
				2640						
				m <sup>3</sup> /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	130	%
Daily electricity consumption	Q <sub>elec</sub>	4.030	kWh				
Annual electricity consumption	AEC	888	kWh				

**Contact details**

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(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	12.4	kW	Tj = - 7 °C	COPd	2.18	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	7.5	kW	Tj = + 2 °C	COPd	3.49	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.3	kW	Tj = + 7 °C	COPd	4.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.9	kW	Tj = +12 °C	COPd	6.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input	Electrical		
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	8021	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	123	%
Daily electricity consumption	Qelec	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

**Contact details**

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(\*\*) 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.

This information is based on EU regulation No 811/2013 and No 813/2013.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	183	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	3.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	4.59	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	6.00	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.19	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2.55	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.55	-			
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	6227	kWh	-		2640	m <sup>3</sup> /h			

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	123	%
Daily electricity consumption	Qelec	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

**Contact details**

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(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	115	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	8.5	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.63	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.49	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.40	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.92	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.53	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-	T <sub>j</sub> = operation limit temperature (***)	COP <sub>d</sub>	1.55	-
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	1.52	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-	Operation limit temperature	TOL	-30	°C
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
T <sub>j</sub> = operation limit temperature (***)	P <sub>dh</sub>	10.7	kW				
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	11.4	kW				
Bivalent temperature	T <sub>biv</sub>	-16	°C				
Reference design conditions for space heating	T <sub>designh</sub>	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	3.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.015	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

**Other items**

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	11650	kWh				

**For heat pump combination heater:**

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	105	%
Daily electricity consumption	Q <sub>elec</sub>	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				

**Contact details**

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(\*\*) 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.



**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	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	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	153	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	8.3	kW	Tj = - 7 °C	COPd	3.65	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.59	-
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	5.15	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	8.80	-
Tj = + 7 °C	Pdh	4.6	kW	Tj = bivalent temperature	COPd	2.03	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.79	-
Tj = +12 °C	Pdh	4.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.05	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	10.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	11.4	kW				
Bivalent temperature	Tbiv	-16	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.015	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	8841	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	105	%
Daily electricity consumption	Q <sub>elec</sub>	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				

**Contact details**

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey
The identification and signature of the person empowered to bind the supplier:	Kenichi SAITO
The signature is signed in the average climate / medium-temperature section.	Manager, Quality Assurance Department
	TURKEY

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

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	156	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	2.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.27	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.50	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	4715	kWh	-						
				2640						
				m <sup>3</sup> /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	130	%
Daily electricity consumption	Q <sub>elec</sub>	4.030	kWh				
Annual electricity consumption	AEC	888	kWh				

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(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	PUZ-SHWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	225	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	3.24	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	5.15	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.1	kW	Tj = +12 °C	COPd	7.18	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.24	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.24	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.015	kW							
Standby mode	P <sub>SB</sub>	0.015	kW							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q <sub>HE</sub>	3279	kWh	-						
				2640						
				m <sup>3</sup> /h						

For heat pump combination heater:									
Declared load profile		L			Water heating energy efficiency		$\eta_{wh}$	130	%
Daily electricity consumption		Qelec	4.030	kWh					
Annual electricity consumption		AEC	888	kWh					

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(\*\*) 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.