

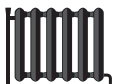


ENERG
енергия · ενεργεια



Indoor unit
Outdoor unit

E*ST20D-****D
PUZ-SWM140YAA



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

DG79V341H09

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		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 _{WA} indoor		Rated heat output under colder climate conditions		Rated heat output under warmer climate conditions		Seasonal space heating energy efficiency under warmer climate conditions		Seasonal space heating energy efficiency under colder climate conditions		For space heating, annual energy consumption under colder climate conditions		For space heating, annual energy consumption under warmer climate conditions		For space heating, annual energy consumption under average climate conditions		Sound power level L _{WA} outdoor					
		kW	%	kWh	dB	kW	kW	%	kWh	kWh	%	kWh	kWh	dB	kW	kW	%	kWh	dB	kW	kW	%	kWh	kWh	dB	kW	kW	%	kWh	kWh	dB
PUZ-SWM60VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	6 6	126 128	3834 3779	41 41	6 6	6 6	111 112	150 155	5181 5147	2093 2027	54 54	✓ ✓	A+++ A+++	6 6	181 184	2701 2646	41 41	6 6	6 6	135 136	208 218	4284 4251	1519 1453	54 54				
PUZ-SWM80VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	8 8	129 130	5016 4961	41 41	8 8	8 8	111 112	162 167	6890 6857	2584 2517	54 54	✓ ✓	A+++ A+++	8 8	181 184	3599 3543	41 41	8 8	8 8	141 142	219 227	5460 5427	1928 1862	54 54				
PUZ-SWM80YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	8 8	128 130	5053 4972	41 41	8 8	8 8	111 112	160 166	6923 6875	2629 2532	54 54	✓ ✓	A+++ A+++	8 8	179 183	3636 3555	41 41	8 8	8 8	141 142	214 225	5493 5444	1973 1976	54 54				
PUZ-SWM100VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	10 10	132 134	6106 6051	41 41	10 10	10 10	109 109	156 159	8813 8780	3362 3296	58 58	✓ ✓	A+++ A+++	10 10	178 180	4564 4509	41 41	10 10	10 10	147 147	223 229	6575 6555	2369 2302	58 58				
PUZ-SWM100YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	10 10	132 133	6141 6061	41 41	10 10	10 10	109 109	154 159	8840 8791	3405 3308	58 58	✓ ✓	A+++ A+++	10 10	177 180	4600 4519	41 41	10 10	10 10	146 147	219 228	6601 6565	2411 2314	58 58				
PUZ-SWM120VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	12 12	131 132	7450 7395	41 41	12 12	12 12	109 109	154 157	10673 10640	4115 4049	58 58	✓ ✓	A+++ A+++	12 12	177 178	5566 5511	41 41	12 12	12 12	141 141	221 227	8290 8257	2882 2816	58 58				
PUZ-SWM120YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	12 12	131 132	7485 7404	41 41	12 12	12 12	109 109	153 156	10698 10649	4157 4060	58 58	✓ ✓	A+++ A+++	12 12	176 178	5600 5520	41 41	12 12	12 12	140 141	218 226	8316 8267	2922 2825	58 58				
PUZ-SWM140VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	14 14	134 135	8438 8383	41 41	14 14	14 14	104 105	150 152	12843 12810	4893 4826	58 58	✓ ✓	A+++ A+++	14 14	175 177	6483 6428	41 41	14 14	14 14	132 132	219 224	10250 10217	3367 3301	58 58				
PUZ-SWM140YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	14 14	134 135	8473 8392	41 41	14 14	14 14	104 105	149 152	12867 12819	4934 4837	58 58	✓ ✓	A+++ A+++	14 14	175 177	6517 6437	41 41	14 14	14 14	131 132	217 223	10275 10226	3407 3310	58 58				
PUZ-SHWM60VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	6 6	129 131	3761 3706	41 41	6 6	6 6	115 116	159 165	4993 4960	1980 1914	54 54	✓ ✓	A+++ A+++	6 6	184 188	2655 2600	41 41	6 6	6 6	138 139	220 231	4202 4168	1437 1371	54 54				
PUZ-SHWM80VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	8 8	132 131	4904 4849	41 41	8 8	8 8	115 115	167 171	6705 6672	2521 2454	54 54	✓ ✓	A+++ A+++	8 8	184 187	3530 3475	41 41	8 8	8 8	146 147	225 233	5299 5266	1874 1808	54 54				
PUZ-SHWM80YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	8 8	131 133	4941 4860	41 41	8 8	8 8	114 115	164 170	6737 6689	2566 2469	54 54	✓ ✓	A+++ A+++	8 8	182 187	3568 3487	41 41	8 8	8 8	145 146	220 232	5332 5284	1920 1823	54 54				
PUZ-SHWM100VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	10 10	136 138	5936 5881	41 41	10 10	10 10	116 117	164 167	8272 8239	3204 3138	58 58	✓ ✓	A+++ A+++	10 10	183 185	4444 4399	41 41	10 10	10 10	149 150	236 244	6480 6447	2233 2167	58 58				
PUZ-SHWM100YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	10 10	135 137	5972 5891	41 41	10 10	10 10	116 117	162 167	8298 8250	3246 3149	58 58	✓ ✓	A+++ A+++	10 10	181 185	4480 4399	41 41	10 10	10 10	149 150	232 242	6508 6459	2276 2179	58 58				
PUZ-SHWM120VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	12 12	136 138	7169 7114	41 41	12 12	12 12	117 118	161 163	9902 9869	3952 3886	58 58	✓ ✓	A+++ A+++	12 12	179 181	5481 5426	41 41	12 12	12 12	149 150	238 237	7843 7810	2753 2687	58 58				
PUZ-SHWM120YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	12 12	136 137	7204 7123	41 41	12 12	12 12	117 118	159 163	9927 9878	3995 3898	58 58	✓ ✓	A+++ A+++	12 12	178 181	5516 5435	41 41	12 12	12 12	149 150	228 237	7868 7819	2793 2696	58 58				
PUZ-SHWM140VAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	14 14	141 142	8021 7965	41 41	14 14	14 14	115 116	156 158	11650 11617	4715 4659	58 58	✓ ✓	A+++ A+++	14 14	183 184	6227 6172	41 41	14 14	14 14	153 154	225 230	8841 8807	3279 3212	58 58				
PUZ-SHWM140YAA	EHSD-**** ERSD-****	✓ ✓	A++ A++	14 14	141 142	8055 7974	41 41	14 14	14 14	115 116	154 158	11674 11625	4757 4657	58 58	✓ ✓	A+++ A+++	14 14	182 184	6262 6181	41 41	14 14	14 14	153 154	222 229	8865 8816	3319 3212	58 58				

	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Português	Ελληνικά
	suomi	Čeština	Български	Foizuki	Ελληνικά
	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
1	builteunit	Utomhusenhet	Udenbuds enhed	unidad exterior	Εξωτερική μονάδα
	Ulkokotelo	Vänkonst i enhet	Внутрен. тпо	jednostka zewnętrzna	-
2	indoor unit	Innengerät	unité intérieure	unità interna	unidad interior
	sisäyksikö	Innhusenhet	Indetænde enhed	unidad interior	Εσωτερική μονάδα
	Sisäyksikö	Vnitřní jednotka	Внутрен. тпо	jednostka vnitřní	-
	Medium-temperature application	Mitteltemperaturanwendung	l'application à moyenne température	la aplicación a media temperatura	la aplicación de media temperatura
3	middle-temperature-boasting	mitteltemperaturapplikation	middletemperatuurtoepassing	a aplicación a media temperatura	η εφαρμογή σε μέση θερμοκρασία
	keshilamipäälisovellus	střednětepelná aplikace	среднотемпературное применение	zastosowanie w średnich temperaturach	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
	alagelämpötilan sovellus	tieftemperaturapplikation	l'application à basse température	a aplicación a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
5	Decided lead profile	Ausgewähltes Lastprofil	Profil de source de chaleur	Profilo di carico dichiarato	Perfil de carga declarado
	Sprekeden capaciteprofiel	Deklarerat belastningsprofil	Ардулет товарного профиля	Perfil de carga declarado	Δηλωμένο προφίλ φορτίου
	limoitetu kuumuusprofiili	Deklarovaný zátežový profil	Объявлен товарный профиль	Deklarovaný profil obciążenia	-
	Seasonal space heating energy efficiency class	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	la classe de efficienza energetica stagionale del riscaldamento d'ambiente	la clase de eficiencia energética estacional de calefacción
6	de seizoenvergoeden energie-efficiëntieklasse voor ruimteverwarming	säsongsrästatade energiefaktitetsklass för rumsuppvärmning	la classe d'efficacité énergétique pour le chauffage des locaux	A robolena salofitica nominalen condizjon klimatikez (medias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	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 efficienza energética del riscaldamento dell'acqua	la clase de eficiencia energética del calentamiento de agua
7	de energie-efficiëntieklasse voor waterverwarming	die energiefaktitetsklasse voor waterverwarming	la classe d'efficacité énergétique pour le chauffage de l'eau	la classe de eficiencia energética para el calentamiento de agua	-
	vedelämmityksen energiatilokkuluksilmasi	Itida energiefaktor, lämpötila-olosuhteissa	Itida energiefaktor, lämpötila-olosuhteissa	Itida energiefaktor, lämpötila-olosuhteissa	-
8	Rated heat output under average climate conditions	die Warmtemleistung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden)	den nominella värmefäkt(under genomsnittliga klimatförhållanden)	den nominelle thermique(under gennemsnitlige klimatiske forhold)	A robolena salofitica nominalen condizjon klimatikez (medias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	Ilalaimmityksen keskimääräinen lämmönsäätöolosuhteissa	Ilalaimmityksen keskimääräinen lämmönsäätöolosuhteissa	Ilalaimmityksen keskimääräinen lämmönsäätöolosuhteissa	Ilalaimmityksen keskimääräinen lämmönsäätöolosuhteissa	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	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 médias)	para calefación auga, el consumo anual de electricidat(en condiciones climáticas medias)
10	voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)	For water heating, annual electricity consumption under average climate conditions	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
11	Seasonal space heating energy efficiency under average climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux(dans les conditions climatiques moyennes)	la classe de eficiencia energética del calentamiento de agua(em condiciones climáticas medias)	la eficiencia energética de calefacción en condiciones climáticas medias
	de seizoenvergoeden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	Säsongsrästatade energiefaktitetsklass för rumsuppvärmning(under genomsnittliga klimatförhållanden)	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	η ενεργειακή απόδοση της εποχιακής θερμότητας(υπό μέσης κλιματικής συνθήκης)
	Water heating energy efficiency under average climate conditions	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
12	de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden)	Energiefaktitetsklasse voor waterverwarming(under gemiddelde klimaatomstandigheden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	vedelämmityksen energiatilokkuluksilmasi ilmastu-olosuhteissa	energetická účinnost ohřevu vody za průměrných klimatických podmínek	energiatilan tehokkuus lämmitysohjauksen aikana keskimääräisissä ilmastuolosuhteissa	la potencia calorífica nominal(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
13	Sound power level L _{WA} indoor	der Schalleistungspegel L _{WA} in Gebäuden	le niveau de puissance acoustique L _{WA} à l'intérieur	el livello di potenza sonora L _{WA} all'interno	el nivel de potencia acústica L _{WA} en interiores
	het geluidswaarniveau L _{WA} binnen	Ljudeffektiva L _{WA} i inomhus	υδρόηλεκτρική L _{WA} i inde	O nivel de potencia sonora L _{WA} no interior	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	Ääniteho L _{WA} sisällä	hadina akustického výkonu L _{WA} ve vnitřním prostoru	haddina akustického výkonu L _{WA} ve vnitřním prostoru	haddina akustického výkonu L _{WA} ve vnitřním prostoru	haddina akustického výkonu L _{WA} εσωτερικού χώρου
14	Work only during off-peak hours	dasss ausschließlich Betrieb des Kombiheizgerätes zu Schwachlastzeiten	funcionare numai în perioadele de joasă sarcină	funcionare soltanto durante le ore notturne	funcionat solamente durante las horas de baja demanda
	Werk only tijdens af-peak uren	drives installation under perioden med lav belastning	l'usage iden for spidsbelastningsperioder	l'usage iden for spidsbelastningsperioder	l'usage iden for spidsbelastningsperioder
	komman anpassat kullastusprofiili ulkoruokela	provodu pouze mimo špičku	работи само в часовые иваны вхршого неговарване	работи само в часовые иваны вхршого неговарване	работи само в часовые иваны вхршого неговарване
	Rated heat output under colder climate conditions	die Warmtemleistung bei kälteren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, en condiciones climáticas más frías	la potencia calorífica nominal en condiciones climáticas más frías
15	de nominale warmteafgifte, onder kouder klimaatomstandigheden	Nominel ägven värmefäkt vid kälare klimatförhållanden	den nominelle thermique(under koldere klimatiske forhold)	den nominelle thermique(under koldere klimatiske forhold)	den nominelle thermique(under koldere klimatiske forhold)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa
	Rated heat output under warmer climate conditions	die Warmtemleistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus chaudes	la potencia térmica nominal, en condiciones climáticas más calidas	la potencia calorífica nominal en condiciones climáticas más calidas
16	de nominale warmteafgifte, onder warmere klimaatomstandigheden	Nominel ägven värmefäkt vid varmare klimatförhållanden	den nominelle thermique(under koldere klimatiske forhold)	den nominelle thermique(under koldere klimatiske forhold)	den nominelle thermique(under koldere klimatiske forhold)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa
	For space heating, annual energy consumption under colder climate conditions	für die Raumheizung, den jährliche Energieverbrauch bei kälteren Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	para o aquecimento de água, o consumo anual de electricidade(em condições climáticas mais frias)	para calefación auga, el consumo anual de electricidat(en condiciones climáticas más frías)
17	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	För rumsuppvärmning, årlig elförbrukning under kälare klimatförhållanden	pour le chauffage de l'eau, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	para o aquecimento de água, o consumo anual de electricidade(em condições climáticas mais frias)	para calefación auga, el consumo anual de electricidat(en condiciones climáticas más frías)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	pro vytápění – roční spotřeba energie za chladnějších klimatických podmínek	pro vytápění – roční spotřeba energie za chladnějších klimatických podmínek	pro vytápění – roční spotřeba energie za chladnějších klimatických podmínek	pro vytápění – roční spotřeba energie za chladnějších klimatických podmínek
	For space heating, annual energy consumption under warmer climate conditions	für die Raumheizung, den jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	para o aquecimento de água, o consumo anual de electricidade(em condições climáticas mais quentes)	para calefación espacios, el consumo anual de energía en condiciones climáticas más cálidas
18	voor ruimteverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	För rumsuppvärmning, årlig elförbrukning under varmare klimatförhållanden	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	para o aquecimento de água, o consumo anual de electricidade(em condições climáticas mais quentes)	para calefación espacios, el consumo anual de energía en condiciones climáticas más cálidas
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	pro vytápění – roční spotřeba energie za teplejších klimatických podmínek	pro vytápění – roční spotřeba energie za teplejších klimatických podmínek	pro vytápění – roční spotřeba energie za teplejších klimatických podmínek	pro vytápění – roční spotřeba energie za teplejších klimatických podmínek
	For water heating, annual energy consumption under colder climate conditions	für die Warmwasserbereitung, den jährliche Stromverbrauch bei kälteren 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 calefación auga, el consumo anual de electricidat(en condiciones climáticas más frías)
19	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	För värmvattenuppvärmning, årlig elförbrukning under kälare klimatförhållanden	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 calefación auga, el consumo anual de electricidat(en condiciones climáticas más frías)
	vedelämmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	pro ohvut vodu – roční spotřeba elektrické energie za chladnějších klimatických podmínek	pro ohvut vodu – roční spotřeba elektrické energie za chladnějších klimatických podmínek	pro ohvut vodu – roční spotřeba elektrické energie za chladnějších klimatických podmínek	pro ohvut vodu – roční spotřeba elektrické energie za chladnějších klimatických podmínek
	For water heating, annual energy consumption under warmer climate conditions	für die Warmwasserbereitung, den 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 quentes)	para calefación auga, el consumo anual de electricidat(en condiciones climáticas más cálidas)
20	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	För värmvattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden	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 quentes)	para calefación auga, el consumo anual de electricidat(en condiciones climáticas más cálidas)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	pro ohvut vodu – roční spotřeba elektrické energie za teplejších klimatických podmínek	pro ohvut vodu – roční spotřeba elektrické energie za teplejších klimatických podmínek	pro ohvut vodu – roční spotřeba elektrické energie za teplejších klimatických podmínek	pro ohvut vodu – roční spotřeba elektrické energie za teplejších klimatických podmínek
21	Seasonal space heating energy efficiency under colder climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	de seizoenvergoeden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Säsongsrästatade energiefaktitetsklass för rumsuppvärmning under kälare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa
	Seasonal space heating energy efficiency under warmer climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
22	de seizoenvergoeden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Säsongsrästatade energiefaktitetsklass för rumsuppvärmning under varmare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa	Ilalaimmityksen kuusilainen energiatilokkuluksilmasi ilmastu-olosuhteissa
	Water heating energy efficiency under colder climate conditions	die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
23	de energie-efficiëntie voor waterverwarming onder kouder klimaatomstandigheden	Energiefaktitetsklasse voor waterverwarming onder kälare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	vedelämmityksen energiatilokkuluksilmasi ilmastu-olosuhteissa	energetická účinnost ohřevu vody za chladnějších klimatických podmínek	energiatilan tehokkuus lämmitysohjauksen aikana keskimääräisissä ilmastuolosuhteissa	la potencia calorífica nominal(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
24	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energiefaktitetsklasse voor waterverwarming onder varmare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal(en condizjon klimatikez medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	vedelämmityksen energiatilokkuluksilmasi ilmastu-olosuhteissa	energetická účinnost ohřevu vody za chladnějších klimatických podmínek	energiatilan tehokkuus lämmitysohjauksen aikana keskimääräisissä ilmastuolosuhteissa	la potencia calorífica nominal(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	Sound power level L _{WA} outdoor	der Schalleistungspegel L _{WA} im Freien	le niveau de puissance acoustique L _{WA} à l'extérieur	el livello di potenza sonora L _{WA} all'esterno	el nivel de potencia acústica L _{WA} en exteriores
25	het geluidswaarniveau L _{WA} buiten	Ljudeffektiva L _{WA} utomhus	υδρόηλεκτρική L _{WA} i ute	O nivel de potencia sonora L _{WA} no exterior	η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου
	Ääniteho L _{WA} ulkona	hadina akustického výkonu L _{WA} ve venkovním prostoru	haddina akustického výkonu L _{WA} ve venkovním prostoru	haddina akustického výkonu L _{WA} no exterior	haddina akustického výkonu L _{WA} no exterior

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	134	%
Declared capacity for heating for 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	1.98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	7.5	kW	Tj = + 2 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.3	kW	Tj = + 7 °C	COPd	4.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.9	kW	Tj = +12 °C	COPd	6.28	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8473	kWh				

For heat pump combination heater:

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

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS 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

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	175	%			
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	2.70	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4.51	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.03	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	2.70	-			
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	6517	kWh	-		2640	m ³ /h			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	123	%
Daily electricity consumption	Q _{elec}	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			
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-SWM140YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	104	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.5	kW	T _j = - 7 °C	COP _d	2.20	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.30	-
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.60	-
T _j = + 7 °C	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.20	-
T _j = +12 °C	P _{dh}	4.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	10.7	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	8.0	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.5	kW				
Bivalent temperature	T _{biv}	-13	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	6.0	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	12867	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	105	%
Daily electricity consumption	Q _{elec}	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 Kccilikoyosb 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-SWM140YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for 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	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.60	-
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	5.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.60	-
Tj = + 7 °C	Pdh	4.6	kW	Tj = bivalent temperature	COPd	1.90	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	4.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.90	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	9.2	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 _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.8	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10275	kWh				

For heat pump combination heater:

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

Contact details

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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-SWM140YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	149	%			
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	1.90	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4934	kWh	-						
				2640						
				m³/h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	130	%
Daily electricity consumption	Q _{elec}	4.030	kWh				
Annual electricity consumption	AEC	888	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey
The identification and signature of the person empowered to bind the supplier:	Kenichi SAITO
The signature is signed in the average climate / medium-temperature section.	Manager, Quality 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-SWM140YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	217	%			
Declared capacity for heating for part load at indoor 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	3.10	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	9.0	kW	Tj = + 7 ° C	COPd	5.01	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.1	kW	Tj = +12 ° C	COPd	7.01	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° 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 _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3407	kWh			2640	m ³ /h			

For heat pump combination heater:

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

Contact details

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	135	%
Declared capacity for heating for part 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	1.98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	7.5	kW	Tj = + 2 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.3	kW	Tj = + 7 °C	COPd	4.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.9	kW	Tj = +12 °C	COPd	6.28	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8392	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	123	%
Daily electricity consumption	Q _{elec}	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-SWM140YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	177	%			
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	2.70	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4.51	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.03	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	2.70	-			
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	3.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	6437	kWh	-	2640	m ³ /h				

For heat pump combination heater:

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

Contact details

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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-SWM140YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	105	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.5	kW	T _j = - 7 °C	COP _d	2.20	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.30	-
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.60	-
T _j = + 7 °C	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.20	-
T _j = +12 °C	P _{dh}	4.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	10.7	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	8.0	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.5	kW				
Bivalent temperature	T _{biv}	-13	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	6.0	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	12819	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	105	%
Daily electricity consumption	Q _{elec}	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-SWM140YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.5	kW	T _j = - 7 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.60	-
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	5.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.60	-
T _j = + 7 °C	P _{dh}	4.6	kW	T _j = bivalent temperature	COP _d	1.90	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{dh}	4.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.90	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	9.2	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	11.4	kW				
Bivalent temperature	T _{biv}	-16	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	4.8	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10226	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	105	%
Daily electricity consumption	Q _{elec}	4.860	kWh				
Annual electricity consumption	AEC	1070	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-SWM140YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	152	%			
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	1.90	–			
Degradation co-efficient (**)	Cdh	1.00	–							
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.10	–			
Degradation co-efficient (**)	Cdh	0.99	–							
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.40	–			
Degradation co-efficient (**)	Cdh	0.98	–							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	–			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	–			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4837	kWh	–						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	130	%
Daily electricity consumption	Q _{elec}	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-SWM140YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	223	%			
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	3.10	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	9.0	kW	Tj = + 7 ° C	COPd	5.01	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.1	kW	Tj = +12 ° C	COPd	7.01	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° 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 _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3310	kWh	-						
For heat pump combination heater:				2640						
Declared load profile	L			m ³ /h						
Daily electricity consumption	Q _{elec}	4.030	kWh							
Annual electricity consumption	AEC	888	kWh							

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

Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY				Manisa OSB 4.Kisim Kccilikoyosb 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-SWM140YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	134	%
Declared capacity for heating for part 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	1.98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6.28	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8473	kWh				

For heat pump combination heater:

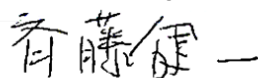
Declared load profile	L			Water heating energy efficiency	η_{wh}	123	%
Daily electricity consumption	Qelec	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey

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Manager, Quality Assurance Department
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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	175	%	
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	2.70	-	
Degradation co-efficient (**)	Cdh	1.00	-					
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4.51	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.03	-	
Degradation co-efficient (**)	Cdh	0.96	-					
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	2.70	-	
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-	
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C	
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.0	kW	
Thermostat-off mode	P _{TO}	0.022	kW					
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical			
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA					
Annual energy consumption	Q _{HE}	6517	kWh					

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	123	%
Daily electricity consumption	Qelec	4.380	kWh				
Annual electricity consumption	AEC	965	kWh				

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	104	%
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	2.20	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.30	-
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	4.30	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.60	-
Tj = + 7 °C	Pdh	4.4	kW	Tj = bivalent temperature	COPd	1.60	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.20	-
Tj = +12 °C	Pdh	4.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.60	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	10.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.0	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	10.5	kW				
Bivalent temperature	Tbiv	-13	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	6.0	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	12867	kWh				

For heat pump combination heater:

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

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for 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	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.60	-
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	5.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.60	-
Tj = + 7 °C	Pdh	4.6	kW	Tj = bivalent temperature	COPd	1.90	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	4.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.90	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	9.2	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 _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.8	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10275	kWh				

For heat pump combination heater:

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

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	149	%			
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	1.90	–			
Degradation co-efficient (**)	Cdh	1.00	–							
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.10	–			
Degradation co-efficient (**)	Cdh	0.99	–							
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.40	–			
Degradation co-efficient (**)	Cdh	0.98	–							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	–			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	–			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4934	kWh							

For heat pump combination heater:

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

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	217	%			
Declared capacity for heating for part load at indoor 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	3.10	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	5.01	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.1	kW	Tj = +12 °C	COPd	7.01	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°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 _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3407	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	130	%
Daily electricity consumption	Q _{elec}	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.