

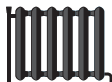


ENERG
енергия · ενεργεια



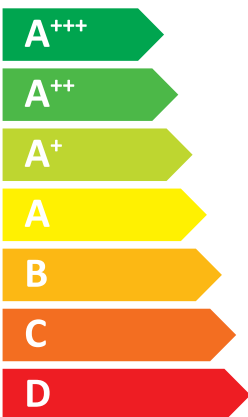
Indoor unit
Outdoor unit

E*SD-****D
PUZ-SWM80VAA



55 °C

35 °C



A⁺⁺

A⁺⁺⁺



41 dB



54 dB

■ 08
■ **08**
■ 08
kW

■ 08
■ **08**
■ 08
kW



2019

811/2013

DG79V342H02



PRODUCT FICHE

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

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	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													
PUZ-SWM60VAA	EHSD-****	✓	A++	6	126	3834	41	6	6	111	150	5181	2093	54	✓	A+++	6	181	2701	41	6	6	135	208	4284	1519	54	✓	A+++	6	184	2646	41	6	6	136	218	4251	1453	54
	ERSD-****	✓	A++	6	128	3779	41	6	6	112	155	5147	2027	54	✓	A+++	6	184	2646	41	6	6	136	218	4251	1453	54	✓	A+++	6	184	2646	41	6	6	136	218	4251	1453	54
PUZ-SWM80VAA	EHSD-****	✓	A++	8	129	5016	41	8	8	111	162	6890	2584	54	✓	A+++	8	181	3599	41	8	8	141	219	5460	1928	54	✓	A+++	8	181	3599	41	8	8	141	219	5460	1928	54
	ERSD-****	✓	A++	8	130	4961	41	8	8	112	167	6857	2517	54	✓	A+++	8	184	3543	41	8	8	142	227	5427	1862	54	✓	A+++	8	184	3543	41	8	8	142	227	5427	1862	54
PUZ-SWM80YAA	EHSD-****	✓	A++	8	128	5053	41	8	8	111	160	6923	2629	54	✓	A+++	8	179	3636	41	8	8	141	214	5493	1973	54	✓	A+++	8	179	3636	41	8	8	141	214	5493	1973	54
	ERSD-****	✓	A++	8	130	4972	41	8	8	112	166	6875	2532	54	✓	A+++	8	183	3555	41	8	8	142	225	5444	1876	54	✓	A+++	8	183	3555	41	8	8	142	225	5444	1876	54
PUZ-SWM100VAA	EHSD-****	✓	A++	10	132	6106	41	10	10	109	156	8813	3362	58	✓	A+++	10	178	4564	41	10	10	147	223	6575	2369	58	✓	A+++	10	180	4509	41	10	10	147	229	6555	2302	58
	ERSD-****	✓	A++	10	134	6051	41	10	10	109	159	8780	3296	58	✓	A+++	10	180	4509	41	10	10	147	229	6555	2302	58	✓	A+++	10	180	4509	41	10	10	147	229	6555	2302	58
PUZ-SWM100YAA	EHSD-****	✓	A++	10	132	6141	41	10	10	109	154	8840	3405	58	✓	A+++	10	177	4600	41	10	10	146	219	6601	2411	58	✓	A+++	10	177	4600	41	10	10	146	219	6601	2411	58
	ERSD-****	✓	A++	10	133	6061	41	10	10	109	159	8791	3308	58	✓	A+++	10	180	4519	41	10	10	147	228	6565	2314	58	✓	A+++	10	180	4519	41	10	10	147	228	6565	2314	58
PUZ-SWM120VAA	EHSD-****	✓	A++	12	131	7450	41	12	12	109	154	10673	4115	58	✓	A+++	12	177	5566	41	12	12	141	221	8290	2882	58	✓	A+++	12	177	5566	41	12	12	141	221	8290	2882	58
	ERSD-****	✓	A++	12	132	7395	41	12	12	109	157	10640	4049	58	✓	A+++	12	178	5511	41	12	12	141	227	8257	2816	58	✓	A+++	12	178	5511	41	12	12	141	227	8257	2816	58
PUZ-SWM120YAA	EHSD-****	✓	A++	12	131	7485	41	12	12	109	153	10698	4157	58	✓	A+++	12	176	5600	41	12	12	140	218	8316	2922	58	✓	A+++	12	176	5600	41	12	12	140	218	8316	2922	58
	ERSD-****	✓	A++	12	132	7404	41	12	12	109	156	10649	4060	58	✓	A+++	12	178	5520	41	12	12	141	226	8267	2825	58	✓	A+++	12	178	5520	41	12	12	141	226	8267	2825	58
PUZ-SWM140VAA	EHSD-****	✓	A++	14	134	8438	41	14	14	104	150	12843	4893	58	✓	A+++	14	175	6483	41	14	14	132	219	10250	3367	58	✓	A+++	14	175	6483	41	14	14	132	219	10250	3367	58
	ERSD-****	✓	A++	14	135	8383	41	14	14	105	152	12810	4826	58	✓	A+++	14	177	6428	41	14	14	132	224	10217	3301	58	✓	A+++	14	177	6428	41	14	14	132	224	10217	3301	58
PUZ-SWM140YAA	EHSD-****	✓	A++	14	134	8473	41	14	14	104	149	12867	4934	58	✓	A+++	14	175	6517	41	14	14	131	217	10275	3407	58	✓	A+++	14	175	6517	41	14	14	131	217	10275	3407	58
	ERSD-****	✓	A++	14	135	8392	41	14	14	105	152	12819	4837	58	✓	A+++	14	177	6437	41	14	14	132	223	10226	3310	58	✓	A+++	14	177	6437	41	14	14	132	223	10226	3310	58
PUZ-SHWM60VAA	EHSD-****	✓	A++	6	129	3761	41	6	6	115	159	4993	1980	54	✓	A+++	6	184	2655	41	6	6	138	220	4202	1437	54	✓	A+++	6	184	2655	41	6	6	138	220	4202	1437	54
	ERSD-****	✓	A++	6	131	3706	41	6	6	116	165	4960	1914	54	✓	A+++	6	188	2600	41	6	6	139	231	4168	1371	54	✓	A+++	6	188	2600	41	6	6	139	231	4168	1371	54
PUZ-SHWM80VAA	EHSD-****	✓	A++	8	132	4904	41	8	8	115	167	6705	2521	54	✓	A+++	8	184	3530	41	8	8	146	225	5299	1874	54	✓	A+++	8	184	3530	41	8	8	146	225	5299	1874	54
	ERSD-****	✓	A++	8	133	4849	41	8	8	115	171	6672	2454	54	✓	A+++	8	187	3475	41	8	8	147	233	5266	1808	54	✓	A+++	8	187	3475	41	8	8	147	233	5266	1808	54
PUZ-SHWM80YAA	EHSD-****	✓	A++	8	131	4941	41	8	8	114	164	6737	2566	54	✓	A+++	8	182	3568	41	8	8	145	220	5332	1920	54	✓	A+++	8	182	3568	41	8	8	145	220	5332	1920	54
	ERSD-****	✓	A++	8	133	4860	41	8	8	115	170	6689	2469	54	✓	A+++	8	187	3487	41	8	8	146	232	5284	1823	54	✓	A+++	8	187	3487	41	8	8	146	232	5284	1823	54
PUZ-SHWM100VAA	EHSD-****	✓	A++	10	136	5936	41	10	10	116	164	8272	3204	58	✓	A+++	10	183	4444	41	10	10	149	236	6480	2233	58	✓	A+++	10	183	4444	41	10	10	149	236	6480	2233	58
	ERSD-****	✓	A++	10	138	5881	41	10	10	117	167	8239	3138	58	✓	A+++	10	185	4389	41	10	10	150	244	6447	2167	58	✓	A+++	10	185	4389	41	10	10	150	244	6447	2167	58
PUZ-SHWM100YAA	EHSD-****	✓	A++	10	135	5972	41	10	10	116	162	8298	3246	58	✓	A+++	10	181	4480	41	10	10	149	232	6508	2276	58	✓	A+++	10	181	4480	41	10	10	149	232	6508	2276	58
	ERSD-****	✓	A++	10	137	5891	41	10	10	117	167	8250	3149	58	✓	A+++	10	185	4399	41	10	10	150	242	6459	2179	58	✓	A+++	10	185	4399	41	10	10	150	242	6459	2179	58
PUZ-SHWM120VAA	EHSD-****	✓	A++	12	136	7169	41	12	12	117	161	9902	3952	58	✓	A+++	12	179	5481	41	12	12	149	232	7843	2753	58	✓	A+++	12	179	5481	41	12	12	149	232	7843	2753	58
	ERSD-****	✓	A++	12	138	7114	41	12	12	118	163	9869	3886	58	✓	A+++	12	181	5426	41	12	12	150	238	7810	2687	58	✓	A+++	12	181	5426	41	12	12	150	238	7810	2687	58
PUZ-SHWM120YAA	EHSD-****	✓	A++	12	136	7204	41	12	12	117	159	9927	3995	58	✓	A+++	12	178	5516	41	12	12	149	228	7668	2793	58	✓	A+++	12	178	5516	41	12	12	149	228	7668	2793	58
	ERSD-****	✓	A++	12	137	7123	41	12	12	118	163	9878	3898	58	✓	A+++	12	181	5435	41	12	12	150	237	7819	2696	58	✓	A+++	12	181	5435	41	12	12	150	237	7819	2696	58
PUZ-SHWM140VAA	EHSD-****	✓	A++	14	141	8021	41	14	14	115	156	11650	4715	58	✓	A+++	14	183	6227	41	14	14	153	225	8841	3279	58	✓	A+++	14	183	6227	41	14	14	153	225	8841	3279	58
	ERSD-****	✓	A++	14	142	7965	41	14	14	115	158	11617	4649	58	✓	A+++	14	184	6172	41	14	14	154	230	8807	3212	58	✓	A+++	14	184	6172	41	14	14	154	230	8807	3212	58
PUZ-SHWM140YAA	EHSD-****	✓	A++	14	141	8055	41	14	14	115	154	11674	4759	58	✓	A+++	14	182	6262	41	14	14	153	222	8865	3319	58	✓	A+++	14	182	6262	41	14	14	153	222	8865	3319	58
	ERSD-****	✓	A++	14	142	7974	41	14	14	115	158	11625	4657	58	✓	A+++	14	184	6181	41	14	14	154	229	8816	3292	58	✓	A+++	14	184	6181	41	14	14	154	229	8816	3292	58

	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Português	Ελληνικά
	suomi	Čeština	Български	Foortuuss	Ελληνικά
	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
1	builteunit	Utomhusenhet	Unités exterie	unidad exterior	Εξωτερική μονάδα
	Ulkokotelo	Värmepump	Внутреннее	jednostka zewnętrzna	-
2	binnenunit	Innenheit	unité intérieure	unità interna	unidad interior
	Sisäyksikö	Innenkühlung	Inducteur interie	unidad interior	Εσωτερική μονάδα
	3	Medium-temperature application	Application à moyenne température	Jednostka wentylacji	la aplicación de media temperatura
	3	medium-temperature-boasting	middle-temperature-boasting	a aplicación a media temperatura	η εφαρμογή σε μέση θερμοκρασία
	keskialueiden sovellus	middle-temperature application	среднотемпературное применение	zastosowania w średnich temperaturach	η εφαρμογή σε μέση θερμοκρασία
4	low-temperature application	Nieder-temperaturanwendung	Application à basse température	la aplicación a bassa temperatura	la εφαρμογή σε χαμηλή θερμοκρασία
	lagtemperatur-tiloerastning	low-temperature application	Application à basse température	a aplicação a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
	malvarmluonnon sovellus	low-temperature application	Application à basse température	zastosowania w niskiej temperaturze	-
5	Decided load profile	Ausgewiesenes Lastprofil	Profil de charge décidé	Profilo di carico dichiarato	Perfil de carga declarado
	5	Specified capacity profile	Ausgewiesenes Lastprofil	Perfil de carga declarado	Δηλωμένο προφίλ φορτίου
	Ilmoitettu kuormitusprofiili	Deklarerat belastningsprofil	Объявлен товарный профиль	Декларован профіль навантаження	la classe de efficienza energetica stagionale del riscaldamento d'ambiente
	Seasonal space heating energy efficiency class	la classe für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	A classe de efficienza energetica stagionale del riscaldamento d'ambiente	η τάξη ενεργειακής απόδοσης της εποχιακής θερμότητας χώρου
6	de seizoengebonden energie-efficiëntieklasse voor ruimteverwarming	saisongebundene energieeffizienzkategorie für raumheizung	la classe für raumheizungsgrad und raumverwärmung	A classe de efficienza energetica del riscaldamento ambiente stagionale	la classe de eficiencia energética del calentamiento ambiente estacional
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Itälmittymykseen kuuluttaminen energiatuokkuluokkaan	Itälmittymykseen kuuluttaminen energiatuokkuluokkaan	la classe de eficiencia energética del calentamiento del agua	la classe de eficiencia energética del calentamiento del agua
	Water heating energy efficiency class	Water heating energy efficiency class	la classe für die wärmeversorgungs-Energieeffizienz	la classe de eficiencia energética del calentamiento de agua	la classe de eficiencia energética del calentamiento de agua
7	de energie-efficiëntieklasse voor waterverwarming	la classe für die wärmeversorgungs-Energieeffizienz	la classe für die wärmeversorgungs-Energieeffizienz	la classe de eficiencia energética del calentamiento de agua	la classe de eficiencia energética del calentamiento de agua
	7	de energie-efficiëntieklasse voor waterverwarming	la classe für die wärmeversorgungs-Energieeffizienz	la classe de eficiencia energética del calentamiento de agua	la classe de eficiencia energética del calentamiento de agua
	Related heat output under average climate conditions	die wärmeleistung bei durchschnittlichen klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal (en condiciones climáticas medias)	la potencia calorífica nominal (en condiciones climáticas medias)
8	de nominale warmteafgifte (onder gemiddelde klimaatomstandigheden)	den nominale wärmeabgabe (unter gemittelten klimabedingungen)	den nominale puissance (under gemiddelt snittlige klimaatforhold)	A potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Ilmestilapito (keskimääräisissä ilmastolosuhteissa)	Ilmestilapito (keskimääräisissä ilmastolosuhteissa)	Ilmestilapito (keskimääräisissä ilmastolosuhteissa)	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	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 calefazer espaços, o consumo anual de energia (em condições climáticas médias)
9	voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	pro vüaerän – ročni spotřeba energie za průměrných klimatických podmínek	za отопление, годичного потребления на энергию (при средних климатичнх условиях)	per il riscaldamento dell'acqua, il consumo annuo di energia (in condizioni climatiche medie)	para calefatar apă, el consumo anual de electricidat (en condiciones climáticas medias)
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Water heating energy efficiency under average climate conditions	die wärmeversorgungs-Energieeffizienz bei durchschnittlichen klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
10	voor waterverwarming, het jaarlijkse elektriciteitsverbruik (onder gemiddelde klimaatomstandigheden)	für die wärmeversorgungs-Energieeffizienz 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 calefatar apă, el consumo anual de electricidat (en condiciones climáticas medias)
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	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	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
11	de seizoengebonden energie-efficiëntie voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	Saisonmedelefficiëntiegrad für raumverwärmung (under gemittelten klimabedingungen)	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux (dans les conditions climatiques moyennes)	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Water heating energy efficiency under average climate conditions	die wärmeversorgungs-Energieeffizienz bei durchschnittlichen klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
12	de energie-efficiëntie voor waterverwarming (onder gemiddelde klimaatomstandigheden)	Energieefficiëntie voor waterverwarming (under gemittelten klimabedingungen)	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
13	Sound power level L _{WA} indoor	der Schalleistungspegel L _{WA} in Gebäuden	le niveau de puissance acoustique L _{WA} à l'intérieur	el nivel de potencia sonora L _{WA} al interior	el nivel de potencia acústica L _{WA} en interiores
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
14	Work only during off-peak hours	hadraa akustische uitsluiting L _{WA} in huishoudingsruimte	fonctionner uniquement pendant les heures creuses	rodzina mocy akustycznej L _{WA} w pomieszczeniu	funcionar solamente durante las horas de baja demanda
	Weekten uitsluitend in de daluren	Weekten uitsluitend in de daluren	Weekten uitsluitend in de daluren	rodzina mocy akustycznej L _{WA} w pomieszczeniu	funcionar solamente durante las horas de baja demanda
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
15	Rated heat output under colder climate conditions	die wärmeleistung unter 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
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
16	Rated heat output under warmer climate conditions	die wärmeleistung unter 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
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	For space heating, annual energy consumption under colder climate conditions	für die raumheizung, den jährlichen 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 calefatar espacios, el consumo anual de energía en condiciones climáticas más frías
17	voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden	für raumverwärmung, jährliche energieförderung unter kälteren klimabedingungen	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 calefatar espacios, el consumo anual de energía en condiciones climáticas más frías
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	For space heating, annual energy consumption under warmer climate conditions	für die raumheizung, den jährlichen 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 calefatar espacios, el consumo anual de energía en condiciones climáticas más calidas
18	voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden	für raumverwärmung, jährliche energieförderung unter wärmeren klimabedingungen	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 calefatar espacios, el consumo anual de energía en condiciones climáticas más calidas
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	For water heating, annual energy consumption under colder climate conditions	für die wärmeversorgungs-Energieeffizienz 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 calefatar agua, el consumo anual de electricidad en condiciones climáticas más frías
19	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	für wärmeversorgungs-Energieeffizienz 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 calefatar agua, el consumo anual de electricidad en condiciones climáticas más frías
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	For water heating, annual energy consumption under warmer climate conditions	für die wärmeversorgungs-Energieeffizienz bei wärmeren klimaverhältnissen	pour le chauffage de l'eau, 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 calefatar agua, el consumo anual de electricidad en condiciones climáticas más calidas
20	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	für wärmeversorgungs-Energieeffizienz bei wärmeren klimaverhältnissen	pour le chauffage de l'eau, 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 calefatar agua, el consumo anual de electricidad en condiciones climáticas más calidas
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Seasonal space heating energy efficiency under colder climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz 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 calefatar espacios, el consumo anual de energía en condiciones climáticas más frías
21	de seizoengebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Saisonmedelefficiëntiegrad für raumverwärmung (under kälteren klimabedingungen)	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
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Seasonal space heating energy efficiency under warmer climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren klimaverhältnissen	pour le chauffage de l'eau, 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 calefatar espacios, el consumo anual de energía en condiciones climáticas más calidas
22	de seizoengebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Saisonmedelefficiëntiegrad für raumverwärmung (under wärmeren klimabedingungen)	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
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Water heating energy efficiency under colder climate conditions	die wärmeversorgungs-Energieeffizienz 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 calefatar agua, el consumo anual de electricidad en condiciones climáticas más frías
23	de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	Energieefficiëntie voor waterverwarming (under kälteren klimabedingungen)	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
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Water heating energy efficiency under warmer climate conditions	die wärmeversorgungs-Energieeffizienz bei wärmeren klimaverhältnissen	pour le chauffage de l'eau, 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 calefatar agua, el consumo anual de electricidad en condiciones climáticas más calidas
24	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energieefficiëntie voor waterverwarming (under wärmeren klimabedingungen)	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
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Sound power level L _{WA} outdoor	der Schalleistungspegel L _{WA} im Freien	le niveau de puissance acoustique L _{WA} à l'extérieur	el nivel de potencia sonora L _{WA} al exterior	el nivel de potencia acústica L _{WA} en exteriores
25	het geluidswaarnemingsniveau L _{WA} buiten	Lautstärkepegel L _{WA} Außen	le niveau de puissance acoustique L _{WA} à l'extérieur	el nivel de potencia sonora L _{WA} al exterior	el nivel de potencia acústica L _{WA} en exteriores
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)
	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	Ilälmittymykseen kuuluttaminen energiatuokkuluokkaan	la potencia calorífica nominal (em condições climáticas médias)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό περιβάλλον)

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM80VAA
	Indoor unit:	EHSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	129	%
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	7.1	kW	Tj = - 7 ° C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

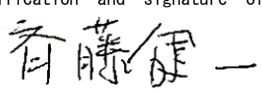
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	5016	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	EHSD-****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:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	181	%			
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	7.1	kW	Tj = - 7 ° C	COPd	3.20	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4.75	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5.61	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6.19	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-			
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	P _{sup}	0.5	kW			
Thermostat-off mode	P _{TO}	0.015	kW							
Standby mode	P _{SB}	0.015	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 / 54	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3599	kWh	-	2220	m ³ /h				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	EHSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	111	%
Declared capacity for heating for part 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	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.33	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.65	-
Tj = + 7 °C	Pdh	4.3	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = +12 °C	Pdh	3.1	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	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}	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	6890	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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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(**) 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-SWM80VAA
	Indoor unit:	EHSD-****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:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	141	%
Declared capacity for heating for part load at indoor 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	4.8	kW	Tj = - 7 °C	COPd	3.43	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.15	-
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	5.45	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.40	-
Tj = + 7 °C	Pdh	4.5	kW	Tj = bivalent temperature	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.40	-
Tj = +12 °C	Pdh	3.1	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	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}	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors	-	2220	m³/h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	5460	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	-	%
Declared load profile	-						
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	EHSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	162	%
Declared capacity for heating for part load at indoor 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	8.0	kW	Tj = + 2 ° C	COPd	2.00	—
Degradation co-efficient (**)	Cdh	1.00	—				
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	3.48	—
Degradation co-efficient (**)	Cdh	0.99	—				
Tj = +12 ° C	Pdh	4.5	kW	Tj = +12 ° C	COPd	5.92	—
Degradation co-efficient (**)	Cdh	0.98	—				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	—
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	—
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2220	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	2584	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY							
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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-SWM80VAA
	Indoor unit:	EHSD-****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:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	219	%			
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	8.0	kW	Tj = + 2 ° C	COPd	3.65	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.1	kW	Tj = + 7 ° C	COPd	5.05	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.7	kW	Tj = +12 ° C	COPd	7.12	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-			
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.015	kW							
Standby mode	P _{SB}	0.015	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 / 54	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	1928	kWh	-						
For heat pump combination heater:				2220						
Declared load profile	-			m ³ /h						
Daily electricity consumption	-			Water heating energy efficiency						
Annual electricity consumption	-			η_{wh}						
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-SWM80VAA
	Indoor unit:	ERSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part 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	7.1	kW	Tj = - 7 ° C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

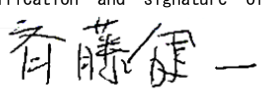
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	4961	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	ERSD-****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:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	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	7.1	kW	Tj = - 7 ° C	COPd	3.20	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4.75	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5.61	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6.19	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-	
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-	
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C	
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.5	kW	
Thermostat-off mode	P _{TO}	0.015	kW					
Standby mode	P _{SB}	0.015	kW	Type of energy input	Electrical			
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA					
Annual energy consumption	Q _{HE}	3543	kWh					

For heat pump combination heater:

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

Contact details

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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-SWM80VAA
	Indoor unit:	ERSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	112	%
Declared capacity for heating for part 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	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.33	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.65	-
Tj = + 7 °C	Pdh	4.3	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = +12 °C	Pdh	3.1	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	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}	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	6857	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	ERSD-****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:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	142	%
Declared capacity for heating for part 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}	4.8	kW	T _j = - 7 °C	COP _d	3.43	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.15	-
T _j = + 2 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	5.45	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.40	-
T _j = + 7 °C	P _{dh}	4.5	kW	T _j = bivalent temperature	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.40	-
T _j = +12 °C	P _{dh}	3.1	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	4.7	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	6.5	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}	0.015	kW	Rated heat output (*)	P _{sup}	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	5427	kWh				

For heat pump combination heater:

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

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	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 P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0.9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM80VAA
	Indoor unit:	ERSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	167	%			
Declared capacity for heating for part load at indoor 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	8.0	kW	Tj = + 2 ° C	COPd	2.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	3.48	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.5	kW	Tj = +12 ° C	COPd	5.92	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.015	kW							
Standby mode	P _{SB}	0.015	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 / 54	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2517	kWh	-						
For heat pump combination heater:				2220						
Declared load profile	-			m ³ /h						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency						
Annual electricity consumption	AEC	-	kWh	η_{wh}						
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-SWM80VAA
	Indoor unit:	ERSD-****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:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	227	%	
Declared capacity for heating for part load at indoor 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	8.0	kW	Tj = + 2 ° C	COPd	3.65	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 ° C	Pdh	5.1	kW	Tj = + 7 ° C	COPd	5.05	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = +12 ° C	Pdh	4.7	kW	Tj = +12 ° C	COPd	7.12	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-	
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C	
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P _{TO}	0.015	kW					
Standby mode	P _{SB}	0.015	kW	Type of energy input	Electrical			
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA					
Annual energy consumption	Q _{HE}	1862	kWh					

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	EHSD-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:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	129	%
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	7.1	kW	Tj = - 7 ° C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				

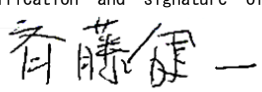
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	5016	kWh				

For heat pump combination heater:

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

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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-SWM80VAA
	Indoor unit:	EHSD-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:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	181	%
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	7.1	kW	Tj = - 7 ° C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	3599	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	EHSD-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:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	111	%
Declared capacity for heating for part 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	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.33	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.65	-
Tj = + 7 °C	Pdh	4.3	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = +12 °C	Pdh	3.1	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	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}	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	6890	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	EHSD-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:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	141	%
Declared capacity for heating for part load at indoor 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	4.8	kW	Tj = - 7 °C	COPd	3.43	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.15	-
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	5.45	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.40	-
Tj = + 7 °C	Pdh	4.5	kW	Tj = bivalent temperature	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.40	-
Tj = +12 °C	Pdh	3.1	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	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}	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors	-	2220	m³/h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	5460	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	-	%
Declared load profile	-						
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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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(**) 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-SWM80VAA
	Indoor unit:	EHSD-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:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	162	%			
Declared capacity for heating for part load at indoor 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	8.0	kW	Tj = + 2 ° C	COPd	2.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	3.48	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.5	kW	Tj = +12 ° C	COPd	5.92	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.015	kW							
Standby mode	P _{SB}	0.015	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 / 54	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2584	kWh	-						
For heat pump combination heater:				2220						
Declared load profile	-			m³/h						
Daily electricity consumption	Q _{elec}	-	kWh							
Annual electricity consumption	AEC	-	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			

• 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-SWM80VAA
	Indoor unit:	EHSD-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:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	219	%
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	8.0	kW	Tj = + 2 ° C	COPd	3.65	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = + 7 ° C	Pdh	5.1	kW	Tj = + 7 ° C	COPd	5.05	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = +12 ° C	Pdh	4.7	kW	Tj = +12 ° C	COPd	7.12	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	–
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	–
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	–25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	–	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	1928	kWh				

For heat pump combination heater:

Declared load profile	–			Water heating energy efficiency	η_{wh}	–	%
Daily electricity consumption	Q _{elec}	–	kWh				
Annual electricity consumption	AEC	–	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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	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-SWM80VAA
	Indoor unit:	ERSD-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:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part 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	7.1	kW	Tj = - 7 ° C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				

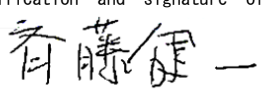
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	4961	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	ERSD-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:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	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	7.1	kW	Tj = - 7 ° C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	3543	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

Contact details

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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-SWM80VAA
	Indoor unit:	ERSD-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:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	112	%
Declared capacity for heating for part 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	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.33	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.65	-
Tj = + 7 °C	Pdh	4.3	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = +12 °C	Pdh	3.1	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	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}	0.015	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	6857	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	ERSD-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:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	142	%
Declared capacity for heating for part 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}	4.8	kW	T _j = - 7 °C	COP _d	3.43	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.15	-
T _j = + 2 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	5.45	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.40	-
T _j = + 7 °C	P _{dh}	4.5	kW	T _j = bivalent temperature	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.40	-
T _j = +12 °C	P _{dh}	3.1	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	6.7	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	4.7	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	6.5	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}	0.015	kW	Rated heat output (*)	P _{sup}	3.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	5427	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	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-SWM80VAA
	Indoor unit:	ERSD-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:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	167	%			
Declared capacity for heating for part load at indoor 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	8.0	kW	Tj = + 2 ° C	COPd	2.00	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	3.48	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.5	kW	Tj = +12 ° C	COPd	5.92	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.015	kW							
Standby mode	P _{SB}	0.015	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 / 54	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2517	kWh	-						
				2220						
				m ³ /h						

For heat pump combination heater:

Declared load profile	–			Water heating energy efficiency	η_{wh}	–	%
Daily electricity consumption	Q _{elec}	–	kWh				
Annual electricity consumption	AEC	–	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-SWM80VAA
	Indoor unit:	ERSD-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:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	227	%			
Declared capacity for heating for part load at indoor 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	8.0	kW	Tj = + 2 ° C	COPd	3.65	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.1	kW	Tj = + 7 ° C	COPd	5.05	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.7	kW	Tj = +12 ° C	COPd	7.12	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-			
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	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}	0.015	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.015	kW							
Standby mode	P _{SB}	0.015	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 / 54	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	1862	kWh	-						
For heat pump combination heater:				2220						
Declared load profile	-			m ³ /h						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency						
Annual electricity consumption	AEC	-	kWh	η_{wh}						
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.