

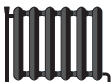


ENERG
енергия · ενεργεια



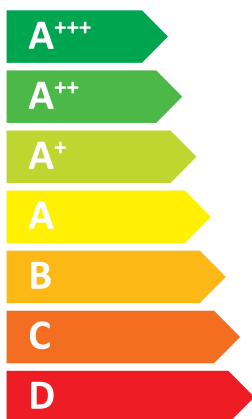
Indoor unit
Outdoor unit

E*SD-****D
PUZ-SHWM120VAA



55 °C

35 °C



A⁺⁺

A⁺⁺⁺



41 dB



58 dB

■ 12
■ 12
■ 12
kW

■ 12
■ 12
■ 12
kW



2019

811/2013

DG79V342H15

1		2		For medium-temperature application															For low-temperature application														
Outdoor unit	Indoor unit	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						
		Medium-temperature application															Low-temperature application																
		Seasonal space heating energy efficiency class															Seasonal space heating energy efficiency class																
		Rated heat output under average climate conditions															Rated heat output under average climate conditions																
		For space heating, annual energy consumption under average climate conditions															For space heating, annual energy consumption under average climate conditions																
		Sound power level L _{WA} , indoor															Sound power level L _{WA} , indoor																
		Rated heat output under warmer climate conditions															Rated heat output under warmer climate conditions																
		Seasonal space heating energy efficiency under warmer climate conditions															Seasonal space heating energy efficiency under warmer climate conditions																
		Rated heat output under colder climate conditions															Rated heat output under colder climate conditions																
		Seasonal space heating energy efficiency under colder 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 colder climate conditions																
		Sound power level L _{WA} , outdoor															Sound power level L _{WA} , outdoor																
		Low-temperature application															Low-temperature application																
		Seasonal space heating energy efficiency class															Seasonal space heating energy efficiency class																
		Rated heat output under average climate conditions															Rated heat output under average climate conditions																
		For space heating, annual energy consumption under average climate conditions															For space heating, annual energy consumption under average climate conditions																
		Sound power level L _{WA} , indoor															Sound power level L _{WA} , indoor																
		Rated heat output under colder climate conditions															Rated heat output under colder climate conditions																
		Seasonal space heating energy efficiency under warmer climate conditions															Seasonal space heating energy efficiency under warmer climate conditions																
		Rated heat output under warmer climate conditions															Rated heat output under warmer climate conditions																
		Seasonal space heating energy efficiency under average climate conditions															Seasonal space heating energy efficiency under average climate conditions																
		For space heating, annual energy consumption under average climate conditions															For space heating, annual energy consumption under average climate conditions																
		Sound power level L _{WA} , outdoor															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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
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						
	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						
PUZ-SHWM120YAA	EHSD-****	✓	A++	12	136	7204	41	12	12	117	159	9927	3995	58	✓	A+++	12	178	5516	41	12	12	149	238	7868	2793	58						
	ERSD-****	✓	A++	12	137	7123	41	12	12	118	163	9878	3898	58	✓	A+++	12	181	5435	41	12	12	150	237	7819	2696	58						
PUZ-SHWM140VAA	EHSD-****	✓	A++	14	141	8021	41	14	14	115	156	11650	4715	58	✓	A+++	14	183	6227	41	14	14	153	225	8841	3219	58						
	ERSD-****	✓	A++	14	142	7965	41	14	14	116	158	11617	4649	58	✓	A+++	14	184	6172	41	14	14	154	230	8807	3272	58						
PUZ-SHWM140YAA	EHSD-****	✓	A++	14	141	8055	41	14	14	115	154	11674	4757	58	✓	A+++	14	182	6262	41	14	14	153	222	8865	3319	58						
	ERSD-****	✓	A++	14	142	7974	41	14	14	116	158	11625	4659	58	✓	A+++	14	184	6181	41	14	14	154	229	8816	3222	58						

	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Português	Ελληνικά
	suomi	Čeština	Български	Português	Ελληνικά
	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
1	builteunit	Utomhusenhet	Unités exterie	unidad exterior	Εξωτερική μονάδα
	Ulkokotelo	Värmepump	Внутрен. тепло	jednostka zewnętrzna	-
2	indoor unit	Innengerät	unité intérieure	unità interna	unidad interior
	sisäyksikö	Innenkühler	Inducteur exterie	unidad interior	Εσωτερική μονάδα
	Sisäyksikö	Värmepump	Внутрен. тепло	jednostka wewnętrzna	-
	Medium-temperature application	Mitteltemperaturanwendung	l'application à moyenne température	la aplicación a media temperatura	la aplicación de media temperatura
3	middle-temperature-boasting	mitteltemperaturapplikation	middletemperatuurapplicatie	a aplicación a media temperatura	η εφαρμογή σε μέση θερμοκρασία
	Kesäilmastoilman sovellus	středněteplotní aplikace	среднотемпературное применение	zastosowanie w średniej temperaturze	η εφαρμογή σε μέση θερμοκρασία
4	low-temperature application	Niedertemperaturanwendung	l'application à basse température	la aplicación a bassa temperatura	la aplicación de baja temperatura
	lagedrögnings- och kylnings	lagedrøgningsanvendning	l'application à basse température	a aplicación a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
5	Desired load profile	Angegebener Lastprofil	Profil de soudeage decalé	Profilo di carico sfalsato	Perfil de carga desfasado
	Säkrad elbelastningsprofil	Deklarerad belastningsprofil	Ардулет товарного профиля	Perfil de carga adelantado	Διφασικό προφίλ φορτίου
	limoniettu kuormitusprofiili	Deklarovaný zatěžovací profil	Объёмн. товарного профиля	Декларованый профиль нагрузки	-
	Seasonal space heating energy efficiency class	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	A classe de eficiência energética sazonal (em condições climáticas médias)	la clase de eficiencia energética estacional de calefacción
6	de seizoensgebonden energie-efficiëntieklasse voor ruimteverwarming	säsongsrästatade energiefaktisklass vid rumsuppvärmning	la classe d'efficacité énergétique pour le chauffage des locaux, dans les conditions climatiques moyennes	A classe de eficiência energética sazonal (em condições climáticas médias)	η τάξη ενεργειακής απόδοσης της εποχιακής θερμότητας χώρου
	Iltaimittimykseen kuusitalteen energiatilokkuluksilmoitus	Itäaikaizimittimykseen kuusitalteen energiatilokkuluksilmoitus	клас на сезонната отоплителна енергийна ефективност	klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń	η τάξη ενεργειακής απόδοσης της εποχιακής θερμότητας χώρου
	Water heating energy efficiency class	die Klasse für die Warmwasserbereitungs-Energieeffizienz	pour le chauffage de l'eau, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie)	para calefación espacios, el consumo anual de energía(en condiciones climáticas medias)
7	de energie-efficiëntieklasse voor waterverwarming	Itäa energiefaktisklass vid vattenuppvärmning	клас на енергийна ефективност при поддържане на вода	klasa efektywności energetycznej podgrzewania wody	-
	Rated heat output under average climate conditions	die Warmtemeistung 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 nominella värmeeffekten(under genomsnittliga klimatförhållanden)	den puissance thermique(under gemittelsnittlige klimatoftoid)	A potencia calorífica nominal(em condições climáticas médias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	Ilmestilastimittimykseen keskimääräisessä ilmastio-olosuhteissa	Ilmestilastimittimykseen keskimääräisessä ilmastio-olosuhteissa	номиналната топлинна мощност(при средни климатични условия)	znatkovna moc sčerpavni wiatułości klimatu umiarkowanego	-
	For space heating, annual energy consumption under average climate conditions	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie)	para calefación espacios, el consumo anual de energía(en condiciones climáticas medias)
9	voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	For rumsuppvärmning, årlig energiförbrukning(vid genomsnittliga klimatförhållanden)	за отопление, годичного потребления на энергию(при средни климатични условия)	para o aquecimento ambiente, o consumo anual de energia(em condições climáticas mé dias)	η η θερμότητα χώρου, η ετήσια καταναλωση ενέργειας(υπό μέσης κλιματικής συνθήκης)
	Iltaimittimykseen vuotuinen energiatilokkuluksilmoitus(keskimääräisessä ilmastio-olosuhteissa)	pro vřazení – roční spotřeba energie za průměrných klimatických podmínek	la puissance thermique(under gemittelsnittlige klimatoftoid)	la potencia térmica nominal(en condiciones climáticas medias)	la potencia calorífica nominal(en condiciones climáticas medias)
	Water heating energy efficiency under average climate conditions	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes)	a eficiencia energética de aquiesciento de agua(en condiciones climáticas medias)	η ενεργειακή απόδοση θερμότητας θερμότητας χώρου(υπό μέσης κλιματικής συνθήκης)
10	voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)	For vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klimatförhållanden)	за поддържане на вода, годишното потребление(при средни климатични условия)	para o aquecimento de água, o consumo anual de electricidade(em condições climáticas m edias)	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας(υπό μέσης κλιματικής συνθήκης)
	Iltaimittimykseen vuotuinen sähkökuluksilmoitus(keskimääräisessä ilmastio-olosuhteissa)	For vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klimatförhållanden)	клас на енергийна ефективност при поддържане на вода	klasa efektywności energetycznej podgrzewania wody	-
	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(υπό μέσης κλιματικής συνθήκης)
11	de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	Säsongsrästatade energiefaktisklass vid rumsuppvärmning(vid genomsnittliga klimatförhållanden)	клас на сезонната отоплителна енергийна ефективност	klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń	η ενεργειακή απόδοση της εποχιακής θερμότητας χώρου(υπό μέσης κλιματικής συνθήκης)
	Iltaimittimykseen kuusitalteen energiatilokkuluksilmoitus(keskimääräisessä ilmastio-olosuhteissa)	sezoni energetická účinnost vřazení za průměrných klimatických podmínek	сезонната енергийна ефективност при отопление(при средни климатични условия)	sezonowa efektywność energetyczna ogrzewania pomieszczeń(w warunkach klimatu umiarkowanego)	-
	Water heating energy efficiency under average climate conditions	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes)	a eficiencia energética de aquiesciento de agua(en condiciones climáticas medias)	η ενεργειακή απόδοση θερμότητας θερμότητας χώρου(υπό μέσης κλιματικής συνθήκης)
12	de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden)	Energiefaktisklass vid vattenuppvärmning(vid genomsnittliga klimatförhållanden)	енергийната ефективност при поддържане на вода(при средни климатични условия)	a eficiencia energética de aquiesciento de agua(en condiciones climáticas medias)	η ενεργειακή απόδοση θερμότητας θερμότητας χώρου(υπό μέσης κλιματικής συνθήκης)
	Iltaimittimykseen energiatilokkuluksilmoitus(keskimääräisessä ilmastio-olosuhteissa)	energetická účinnost vřazení vody za průměrných klimatických podmínek	енергийната ефективност при поддържане на вода(при средни климатични условия)	efektywność energetyczna podgrzewania wody(w warunkach klimatu umiarkowanego)	-
13	Sound power level L _{WA} indoor	der Schalleistungspegel L _{WA} in Gebäuden	le niveau de puissance acoustique L _{WA} à l'intérieur	il livello di potenza sonora L _{WA} all'interno	el nivel de potencia acústica L _{WA} en interiores
	Iltaimittimykseen L _{WA} sisällä	Ljudteknisk L _{WA} i inomhus	удельная акустическая мощность L _{WA} в помещении	O nível de potência sonora L _{WA} no interior	η οδότηση ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	Work only during off-peak hours	hadra akustického výkonu L _{WA} ve vlnitím prostoru	инство на звукова мощност L _{WA} на задното	rodum mocy akustycznej L _{WA} w pomieszczeniu	funcionando solamente durante las horas de baja demanda
14	Wetken uitsluitend in de daluren	drives útsluitende under perioden med lag belastning	funcionare cden for spidsbelastningsperioder	funcionare soltanto durante le ore notte	λειτουργία μόνο εντός των ωρών χαμηλής
	komman anpassat kullastusrapien ulkoruolalla	provodu pouze mimo špičku	работи само в часовите извън върхового натоварване	de tiposet anpassante fora das horas de pico	-
	Rated heat output under colder climate conditions	die Warmtemeistung bei kälteren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, en condiciones climáticas más frías	la potencia calorífica nominal en condiciones climáticas más frías
15	de nominale warmteafgifte, onder kouder klimaatomstandigheden	Nominell ägven värmeeffekt vid kälare klimatförhållanden	den puissance thermique nominale, dans les conditions climatiques plus froides	A potencia calorífica nominal(em condições climáticas mais frias)	η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen, kylmissä ilmastio-olosuhteissa	Ilmestilastimittimykseen, kylmissä ilmastio-olosuhteissa	номиналната топлинна мощност при по-студени климатични условия	znatkovna moc sčerpavni w warunkach klimatu chłodnego	-
	Rated heat output under warmer climate conditions	die Warmtemeistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus chaudes	la potencia térmica nominal, em condições climáticas mais quentes	la potencia calorífica nominal en condiciones climáticas más calidas
16	de nominale warmteafgifte, onder warmere klimaatomstandigheden	Nominell ägven värmeeffekt vid varmare klimatförhållanden	den puissance thermique nominale, dans les conditions climatiques plus chaudes	A potencia calorífica nominal(em condições climáticas mais quentes)	η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες
	Iltaimittimykseen, lämpimässä ilmastio-olosuhteissa	Ilmestilastimittimykseen, lämpimässä ilmastio-olosuhteissa	номиналната топлинна мощност при по-топли климатични условия	znatkovna moc sčerpavni w warunkach klimatu ciepłego	-
	For space heating, annual energy consumption under colder climate conditions	für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	para o aquecimento d'ambiente, o consumo annuo di energia, in condizioni climatiche più fredde	para calefación espacios, el consumo anual de energía en condiciones climáticas más frías
17	voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden	For rumsuppvärmning, årlig energiförbrukning under kälare klimatförhållanden	for the heating of the room, the annual energy consumption under colder climate conditions	para o aquecimento ambiente, o consumo anual de energia, em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen vuotuinen energiatilokkuluksilmoitus(ilmasto-olosuhteissa)	pro vřazení – roční spotřeba energie za chladnější klimatických podmínek	за отопление, годишното потребление на енергия при по-студени климатични условия	para o aquecimento ambiente, o consumo anual de energia, em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	For space heating, annual energy consumption under warmer climate conditions	für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	para o aquecimento ambiente, o consumo anual de energia, em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
18	voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden	For rumsuppvärmning, årlig energiförbrukning under varmare klimatförhållanden	за отопление, годишното потребление на енергия при по-топли климатични условия	para o aquecimento ambiente, o consumo anual de energia, em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen vuotuinen energiatilokkuluksilmoitus(ilmasto-olosuhteissa)	pro vřazení – roční spotřeba energie za teplejších klimatických podmínek	за отопление, годишното потребление на енергия при по-топли климатични условия	para o aquecimento ambiente, o consumo anual de energia, em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	For water heating, annual energy consumption under colder climate conditions	für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus froides	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
19	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	For vattenuppvärmning, årlig elförbrukning under kälare klimatförhållanden	for the heating of the water, the annual electricity consumption under colder climate conditions	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen vuotuinen sähkökuluksilmoitus(ilmasto-olosuhteissa)	pro vřazení vody – roční spotřeba elektrické energie za chladnější klimatických podmínek	за поддържане на вода, годишното потребление на електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	For water heating, annual energy consumption under warmer climate conditions	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus chaudes	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
20	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	For vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden	for the heating of the water, the annual electricity consumption under warmer climate conditions	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen vuotuinen sähkökuluksilmoitus(ilmasto-olosuhteissa)	pro vřazení vody – roční spotřeba elektrické energie za teplejších klimatických podmínek	за поддържане на вода, годишното потребление на електроенергия при по-топли климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Seasonal space heating energy efficiency under colder climate conditions	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	la puissance thermique(under gemittelsnittlige klimatoftoid)	A potencia calorífica nominal(em condições climáticas médias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
21	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Säsongsrästatade energiefaktisklass vid rumsuppvärmning under kälare klimatförhållanden	сезонната енергийна ефективност при отопление при по-студени климатични условия	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chłodnego	η ενεργειακή απόδοση της εποχιακής θερμότητας χώρου υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen kuusitalteen energiatilokkuluksilmoitus(ilmasto-olosuhteissa)	sezoni energetická účinnost vřazení za chladnější klimatických podmínek	сезонната енергийна ефективност при отопление при по-студени климатични условия	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chłodnego	η ενεργειακή απόδοση της εποχιακής θερμότητας χώρου υπό ψυχρότερες κλιματικές συνθήκες
	Seasonal space heating energy efficiency under warmer climate conditions	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique saisonnière, pour le chauffage des locaux, dans les conditions climatiques moyennes	la classe de eficiencia energética sazonal de calefacción en condiciones climáticas más calidas	η ενεργειακή απόδοση της εποχιακής θερμότητας χώρου υπό θερμότερες κλιματικές συνθήκες
22	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Säsongsrästatade energiefaktisklass vid rumsuppvärmning under varmare klimatförhållanden	клас на сезонната отоплителна енергийна ефективност	klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń	η ενεργειακή απόδοση της εποχιακής θερμότητας χώρου υπό θερμότερες κλιματικές συνθήκες
	Iltaimittimykseen kuusitalteen energiatilokkuluksilmoitus(ilmasto-olosuhteissa)	sezoni energetická účinnost vřazení za teplejších klimatických podmínek	сезонната енергийна ефективност при отопление при по-топли климатични условия	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu ciepłego	η ενεργειακή απόδοση της εποχιακής θερμότητας χώρου υπό θερμότερες κλιματικές συνθήκες
	Water heating energy efficiency under colder climate conditions	die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
23	de energie-efficiëntie voor waterverwarming onder kouder klimaatomstandigheden	Energiefaktisklass vid vattenuppvärmning under kälare klimatförhållanden	енергийната ефективност при поддържане на вода при по-студени климатични условия	a eficiencia energética de aquiesciento de agua(em condiciones climáticas más frias)	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen energiatilokkuluksilmoitus(ilmasto-olosuhteissa)	energetická účinnost vřazení vody za chladnější klimatických podmínek	енергийната ефективност при поддържане на вода при по-студени климатични условия	a eficiencia energética de aquiesciento de agua(em condiciones climáticas más frias)	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
24	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energiefaktisklass vid vattenuppvärmning under varmare klimatförhållanden	енергийната ефективност при поддържане на вода при по-топли климатични условия	a eficiencia energética de aquiesciento de agua(em condiciones climáticas más frias)	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Iltaimittimykseen energiatilokkuluksilmoitus(ilmasto-olosuhteissa)	energetická účinnost vřazení vody za teplejších klimatických podmínek	енергийната ефективност при поддържане на вода при по-топли климатични условия	a eficiencia energética de aquiesciento de agua(em condiciones climáticas más frias)	η η η θερμότητα χώρου, η ετήσια καταναλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	Sound power level L _{WA} outdoor	der Schalleistungspegel L _{WA} im Freien	le niveau de puissance acoustique L _{WA} à l'extérieur	il livello di potenza sonora L _{WA} all'esterno	el nivel de potencia acústica L _{WA} en exteriores
25	het geluidswaarnemingsniveau L _{WA} buiten	Ljudteknisk L _{WA} utomhus	удельная акустическая мощность L _{WA} на открытом	O nível de potência sonora L _{WA} no exterior	η οδότηση ηχητικής ισχύος L _{WA} εξωτερικού χώρου
	Iltaimittimykseen L _{WA} ulkona	hadra akustického výkonu L _{WA} ve venkovním prostoru	инство на звукова мощност L _{WA} на открито	rodum mocy akustycznej L _{WA} na zewnątrz	-

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	136	%
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	10.7	kW	Tj = - 7 ° C	COPd	2.13	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6.32	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.78	-
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.78	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				

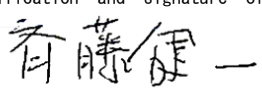
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7169	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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	179	%			
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	10.7	kW	Tj = - 7 ° C	COPd	2.85	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.53	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.04	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.02	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.43	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.43	-			
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5481	kWh	-		2640	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 Keciilikoyosb 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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	117	%
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	7.3	kW	Tj = - 7 °C	COPd	2.70	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.50	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.78	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.00	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.2	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	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	3.9	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			
Capacity control	variable			-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	9902	kWh				

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

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

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	149	%
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}	7.3	kW	T _j = - 7 °C	COP _d	3.67	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.30	-
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 7 °C	COP _d	5.38	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	8.02	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	2.08	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.56	-
T _j = +12 °C	P _{dh}	4.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-30	°C
T _j = bivalent temperature	P _{dh}	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	8.7	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	9.9	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}	3.4	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7843	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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	161	%			
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	12.1	kW	Tj = + 2 ° C	COPd	2.05	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3.42	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.2	kW	Tj = +12 ° C	COPd	5.65	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.05	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.05	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3952	kWh	-						
For heat pump combination heater:				2640						
Declared load profile	-			m ³ /h						
Daily electricity consumption	Q _{elec}	-	kWh							
Annual electricity consumption	AEC	-	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				

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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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	232	%			
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	12.1	kW	Tj = + 2 ° C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5.32	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.46	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.30	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.30	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2753	kWh	-						
				2640						
				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

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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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	138	%
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	10.7	kW	Tj = - 7 ° C	COPd	2.13	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6.32	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.78	-
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.78	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				

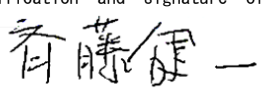
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7114	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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(*) 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-SHWM120VAA
	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	12.1	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	10.7	kW	Tj = - 7 ° C	COPd	2.85	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.53	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.04	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.02	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.43	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.43	-			
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5426	kWh	-	2640	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

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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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	118	%
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	7.3	kW	Tj = - 7 °C	COPd	2.70	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.50	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.78	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.00	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.2	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	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	3.9	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			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	9869	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				

Contact details				Mitsubishi Electric Air Conditioning Systems Manufacturing Turkey Joint Stock Company			
The identification and signature of the person empowered to bind the supplier:				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
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				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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	150	%
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	7.3	kW	Tj = - 7 °C	COPd	3.67	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.30	-
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.38	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	8.02	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	2.08	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.56	-
Tj = +12 °C	Pdh	4.6	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	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	3.4	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7810	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

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

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

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

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	163	%			
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	12.1	kW	Tj = + 2 ° C	COPd	2.05	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3.42	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.2	kW	Tj = +12 ° C	COPd	5.65	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.05	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.05	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3886	kWh	-						
				2640						
				m ³ /h						

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.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	238	%			
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	12.1	kW	Tj = + 2 ° C	COPd	3.30	–			
Degradation co-efficient (**)	Cdh	1.00	–							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5.32	–			
Degradation co-efficient (**)	Cdh	0.99	–							
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.46	–			
Degradation co-efficient (**)	Cdh	0.98	–							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.30	–			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.30	–			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	–30	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2687	kWh	–						
				2640						
				m³/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

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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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	136	%
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	10.7	kW	Tj = - 7 ° C	COPd	2.13	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6.32	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.78	-
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.78	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{TO}	0.015	kW		Electrical		
Standby mode	P _{SB}	0.015	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

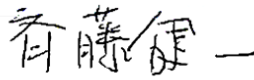
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7169	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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	179	%			
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	10.7	kW	Tj = - 7 ° C	COPd	2.85	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.53	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.04	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.02	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.43	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.43	-			
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5481	kWh	-	2640	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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(*) 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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	117	%
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	7.3	kW	Tj = - 7 °C	COPd	2.70	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.50	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.78	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.00	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.2	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	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	3.9	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			
Capacity control	variable			-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	9902	kWh				

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

Contact details				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY							
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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	3.67	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.30	-
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.38	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	8.02	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	2.08	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.56	-
Tj = +12 °C	Pdh	4.6	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.7	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	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	3.4	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	-	2640	m³/h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7843	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	-	%
Declared load profile	-						
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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	161	%			
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	12.1	kW	Tj = + 2 °C	COPd	2.05	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.42	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.2	kW	Tj = +12 °C	COPd	5.65	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.05	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.05	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3952	kWh	-						
				2640						
				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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(*) 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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	232	%
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	12.1	kW	Tj = + 2 °C	COPd	3.30	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	5.32	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.30	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	2753	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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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	138	%
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	10.7	kW	Tj = - 7 ° C	COPd	2.13	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6.32	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.78	-
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.78	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{TO}	0.015	kW		Electrical		
Standby mode	P _{SB}	0.015	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

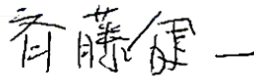
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7114	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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(**) 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-SHWM120VAA
	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	12.1	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	10.7	kW	Tj = - 7 ° C	COPd	2.85	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.53	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.04	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.02	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.43	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.43	-			
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5426	kWh	-	2640	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

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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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	118	%
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	7.3	kW	Tj = - 7 °C	COPd	2.70	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.50	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.78	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.00	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.2	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	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	3.9	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	-	2640	m³/h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	9869	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			
The identification and signature of the person empowered to bind the supplier:				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
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				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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	150	%
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}	7.3	kW	T _j = - 7 °C	COP _d	3.67	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.30	-
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 7 °C	COP _d	5.38	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	8.02	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	2.08	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.56	-
T _j = +12 °C	P _{dh}	4.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-30	°C
T _j = bivalent temperature	P _{dh}	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	8.7	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	9.9	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}	3.4	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	-	2640	m³/h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7810	kWh				

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

Contact details				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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	163	%			
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	12.1	kW	Tj = + 2 °C	COPd	2.05	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.42	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.2	kW	Tj = +12 °C	COPd	5.65	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.05	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	2.05	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	3886	kWh	-						
				2640						
				m³/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-SHWM120VAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	238	%			
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	12.1	kW	Tj = + 2 ° C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5.32	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.46	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.30	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.30	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{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 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2687	kWh	-						
				2640						
				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

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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

• 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.