

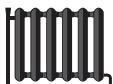


ENERG
енергия · ενέργεια



Indoor unit
Outdoor unit

E*ST20D-****D
PUZ-SWM120YAA



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

A⁺⁺



A⁺

A

B

C

D

E

F

A⁺



41 dB



58 dB



- 12 kW
- 12 kW
- 12 kW

2019

811/2013

DG79V341H07

SPACE HEATER		For medium-temperature application															For low-temperature application													
1	2	3	6	8	11	9	13	15	16	21	22	17	18	25	4	6	8	11	9	13	15	16	21	22	17	18	25			
Outdoor unit	Indoor unit	Medium-temperature application															Low-temperature application													
		Seasonal space heating energy efficiency class		Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L _{WA} indoor	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For space heating, annual energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L _{WA} outdoor	Seasonal space heating energy efficiency class		Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L _{WA} indoor	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L _{WA} outdoor
		kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB																		
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	4399	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	228	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	3279	58			
	ERSD-****	✓	A++	14	142	7965	41	14	14	116	158	11617	4649	58	✓	A+++	14	184	6172	41	14	14	154	230	8807	3212	58			
PUZ-SHWM140YAA	EHSD-****	✓	A++	14	141	8055	41	14	14	115	154	11674	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			

COMBINATION HEATER		For medium-temperature application																									For low-temperature application																																																																																																									
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| Outdoor unit | Indoor unit | Medium-temperature application | | | | | | | | | | | | | | | | | | | | | | | | | Low-temperature application | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Medium temperature application | Dedicated load profile | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat at output under average climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual energy consumption under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Sound power level L _{WA} indoor | Work only during off-peak hours | Rated heat at output under colder climate conditions | Rated heat at output under warmer climate conditions | For space heating, annual energy consumption under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under average climate 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conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual energy consumption under average climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual energy consumption under average climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual energy consumption under average climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions |

	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Português	Ελληνικά
	suomi	Čeština	Български	Foizuki	Ελληνικά
	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
1	builteunit	Utomhusenhet	Unités exterie	unidad exterior	Εξωτερική μονάδα
	Ulkokotelo	Vänkonst ierjotika	Външно тяло	jednostka zewnętrzna	-
2	indoor unit	Innengerät	unité intérieure	unità interna	unidad interior
	sisäyksikö	Innhusenhet	Interiöras yhet	unidad interior	Εσωτερική μονάδα
	Sisäyksikö	Vnitřní jednotka	Внутреннее тяло	jednostka wewnętrzna	-
	Medium-temperature application	Mitteltemperatulanwendung	l'application à moyenne température	la aplicación a media temperatura	la aplicación de media temperatura
3	middle-temperature-boasting	middle-temperatureapplikation	middle-temperatureapplikation	a aplicación a media temperatura	η εφαρμογή σε μέση θερμοκρασία
	keskilämpötilan sovellus	średniośredni aplikacje	średniośredniego przytoczenie	zastosowania w średnich temperaturach	η εφαρμογή σε μέση θερμοκρασία
4	low-temperature application	Niedertemperaturanwendung	l'application à basse température	la aplicación a bassa temperatura	la aplicación de baja temperatura
	alagelämpötilan sovellus	Niedertemperaturapplikation	l'application à basse température	a aplicación a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
5	Decided lead profile	Ausgewähltes Leadrprofil	Profil de soudeage décidé	Profilo di carico dichiarato	Perfil de carga declarado
	Sprekregen capaciteisprofiel	Dekanterad belastningsprofil	Audujet tavadzavoprofil	Perfil de carga declarado	Δηλωμένο προφίλ φόρτου
	limoniettu kuormitusprofiili	Dekanterad belastningsprofil	Объёмн товарного профиля	Declinatione profilo dichiarato	la classe de efficienza energetica stagionale del riscaldamento d'ambiente
	Seasonal space heating energy efficiency class	la classe für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	la classe de efficienza energetica stagionale del riscaldamento d'ambiente	η τάξη ενεργειακής απόδοσης της εποχιακής θερμότητας χώρου
6	de seizoensofgebonden energie-efficiëntieklasse voor ruimteverwarming	saisonsofgerelateerde energieefficiëntieklasse voor ruimteverwarming	la classe d'efficacité énergétique liée au chauffage des locaux	la classe de efficienza energetica stagionale del riscaldamento d'ambiente	la classe de efficienza energetica stagionale del riscaldamento d'ambiente
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Itäimälämpötilasta riippuva lämmönvaihtokalu luokitus	la classe de efficacité énergétique liée au chauffage des locaux	la classe de efficienza energetica stagionale del riscaldamento d'ambiente	la classe de efficienza energetica stagionale del riscaldamento d'ambiente
	Water heating energy efficiency class	die Klasse für die Warmwasserbereitungs-Energieeffizienz	la classe d'efficacité énergétique, pour le chauffage de l'eau	la classe de efficienza energetica del riscaldamento dell'acqua	η τάξη ενεργειακής απόδοσης θερμότητας χώρου
7	de energie-efficiëntieklasse voor waterverwarming	energieefficiëntieklasse voor waterverwarming	la classe d'efficacité énergétique, pour le chauffage de l'eau	la classe de efficienza energetica del riscaldamento dell'acqua	η τάξη ενεργειακής απόδοσης θερμότητας χώρου
	vedenlämmityksen energiatuokalu luokka	Itäa energiatuokalu luokka	la classe d'efficacité énergétique, pour le chauffage de l'eau	la classe de eficiencia energetica del riscaldamento dell'acqua	η τάξη ενεργειακής απόδοσης θερμότητας χώρου
	Rated heat output under average climate conditions	die Warmtemittelung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
8	de nominale warmteafvoer (onder gemiddelde klimaatomstandigheden)	Den nominella värmeförbrukning (under genomsnittliga klimatförhållanden)	den puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	η ονομαστική θερμική ισχύς (στο μέσο κλιματικό ουαθήκας)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Itäimälämpötilasta riippuva lämmönvaihtokalu luokitus	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	For space heating, annual energy consumption under average climate conditions	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
9	voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	For ruimteverwarming, årlig energiforbrukning (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Itäimälämpötilasta riippuva lämmönvaihtokalu luokitus	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	Water heating, annual electricity consumption under average climate conditions	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
10	voor waterverwarming, het jaarlijkse elektriciteitsverbruik (onder gemiddelde klimaatomstandigheden)	For waterverwarming, årlig elforbrukning (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	vedenlämmityksestä vuotuinen sähkökulutus (keskimääräisessä ilmastio-olosuhteissa)	For waterverwarming, årlig elforbrukning (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
11	Seasonal space heating energy efficiency under average climate conditions	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	de seizoensofgebonden energie-efficiëntie voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	Saisonsofgerelateerde energieefficiëntie voor ruimteverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Itäimälämpötilasta riippuva lämmönvaihtokalu luokitus	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	Water heating energy efficiency under average climate conditions	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
12	de energie-efficiëntie voor waterverwarming (onder gemiddelde klimaatomstandigheden)	Energieefficiëntie voor waterverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
	vedenlämmityksen energiatuokalu luokitus (keskimääräisessä ilmastio-olosuhteissa)	energieefficiëntie voor waterverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potenza calorifica nominale (in condizioni climatiche medie)
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
	hät geluidswaarniveau L _{WA} binnen	Ludeistefektiva L _{WA} i inomhus	l'unité de puissance acoustique L _{WA} à l'intérieur	O livello di potenza sonora L _{WA} po interno	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	ääniteho L _{WA} sisällä	Ludeistefektiva L _{WA} i inomhus	l'unité de puissance acoustique L _{WA} à l'intérieur	O livello di potenza sonora L _{WA} po interno	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
14	Work only during off-peak hours	hadra akustischer Betrieb des Kombiheizgerätes zu Schwachlastzeiten	l'unité de puissance acoustique L _{WA} à l'intérieur	O livello di potenza sonora L _{WA} po interno	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	Work only during off-peak hours	hadra akustischer Betrieb des Kombiheizgerätes zu Schwachlastzeiten	l'unité de puissance acoustique L _{WA} à l'intérieur	O livello di potenza sonora L _{WA} po interno	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	Weeken uitsluitend in de daluren	drass ieständande under perioder med lag belastning	l'unité de puissance acoustique L _{WA} à l'intérieur	O livello di potenza sonora L _{WA} po interno	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	komman anpassat kullastusprofiili ulkoruokella	produzi pouze mimo špičku	l'unité de puissance acoustique L _{WA} à l'intérieur	O livello di potenza sonora L _{WA} po interno	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	Rated heat output under colder climate conditions	die Warmtemittelung bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus froides	la potenza termica nominale (in condizioni climatiche più fredde)	la potenza calorifica nominale (in condizioni climatiche più fredde)
15	de nominale warmteafvoer, onder kouder klimaatomstandigheden	Nominell ägven värmeförbrukning vid kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus froides	la potenza termica nominale (in condizioni climatiche più fredde)	la potenza calorifica nominale (in condizioni climatiche più fredde)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Nominell ägven värmeförbrukning vid kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus froides	la potenza termica nominale (in condizioni climatiche più fredde)	la potenza calorifica nominale (in condizioni climatiche più fredde)
	Rated heat output under warmer climate conditions	die Warmtemittelung bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
16	de nominale warmteafvoer, onder warmere klimaatomstandigheden	Nominell ägven värmeförbrukning vid wärmeren klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Nominell ägven värmeförbrukning vid wärmeren klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	For space heating, annual energy consumption under colder climate conditions	für die Raumheizung, den jährliche Energieverbrauch bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
17	voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden	For ruimteverwarming, årlig energiforbrukning under kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	For ruimteverwarming, årlig energiforbrukning under kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	For space heating, annual energy consumption under warmer climate conditions	für die Raumheizung, den jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
18	voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden	For ruimteverwarming, årlig energiforbrukning under wärmeren klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	For ruimteverwarming, årlig energiforbrukning under wärmeren klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	For water heating, annual energy consumption under colder climate conditions	für die Warmwasserbereitung, den jährliche Stromverbrauch bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
19	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	For waterverwarming, årlig elforbrukning under kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	vedenlämmityksestä vuotuinen sähkökulutus kylmissä ilmastio-olosuhteissa	For waterverwarming, årlig elforbrukning under kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	For water heating, annual energy consumption under warmer climate conditions	für die Warmwasserbereitung, den jährliche Stromverbrauch bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
20	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	For waterverwarming, årlig elforbrukning under wärmeren klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	vedenlämmityksestä vuotuinen sähkökulutus lämpimässä ilmastio-olosuhteissa	For waterverwarming, årlig elforbrukning under wärmeren klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Seasonal space heating energy efficiency under colder climate conditions	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
21	de seizoensofgebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Saisonsofgerelateerde energieefficiëntie voor ruimteverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Saisonsofgerelateerde energieefficiëntie voor ruimteverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Seasonal space heating energy efficiency under warmer climate conditions	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
22	de seizoensofgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Saisonsofgerelateerde energieefficiëntie voor ruimteverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Iläimälämpötilasta riippuva lämmönvaihtokalu luokitus	Saisonsofgerelateerde energieefficiëntie voor ruimteverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Water heating energy efficiency under colder climate conditions	die Warmwasserbereitungs-Energieeffizienz bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
23	de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	Energieefficiëntie voor waterverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	vedenlämmityksen energiatuokalu luokitus kylmissä ilmastio-olosuhteissa	Energieefficiëntie voor waterverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
24	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energieefficiëntie voor waterverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	vedenlämmityksen energiatuokalu luokitus lämpimässä ilmastio-olosuhteissa	Energieefficiëntie voor waterverwarming (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potenza termica nominale (in condizioni climatiche più calde)	la potenza calorifica nominale (in condizioni climatiche più calde)
	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 geluidswaarniveau L _{WA} buiten	Ludeistefektiva L _{WA} i utomhus	l'unité de puissance acoustique L _{WA} à l'extérieur	O livello di potenza sonora L _{WA} po esterno	η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου
	ääniteho L _{WA} ulkona	hadra akustischer Betrieb des Kombiheizgerätes zu Schwachlastzeiten	l'unité de puissance acoustique L _{WA} à l'extérieur	O livello di potenza sonora L _{WA} po esterno	η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM120YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.7	kW	Tj = - 7 °C	COPd	1.87	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	4.65	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.8	kW	Tj = +12 °C	COPd	6.20	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7485	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS 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

Kenichi SAITO

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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-SWM120YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	176	%
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	2.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.75	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	2.40	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	5600	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	134	%
Daily electricity consumption	Q _{elec}	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				

Contact details

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The signature is signed in the average climate / medium-temperature section.	Manager, Quality Assurance Department
	TURKEY

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(***) 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-SWM120YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	109	%
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	2.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.40	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.60	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.80	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.30	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.40	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	9.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	7.8	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	8.9	kW				
Bivalent temperature	Tbiv	-13	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.3	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10698	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				

Contact details

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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-SWM120YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	140	%
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	3.50	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.00	-
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 7 °C	COP _d	5.20	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.50	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	1.95	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{dh}	5.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°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}	8.0	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}	0.022	kW	Rated heat output (*)	P _{sup}	4.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8316	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	109	%
Daily electricity consumption	Q _{elec}	4.750	kWh				
Annual electricity consumption	AEC	1044	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-SWM120YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	153	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	12.1	kW	Tj = + 2 °C	COPd	1.95	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.2	kW	Tj = +12 °C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.95	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.95	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4157	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	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-SWM120YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	218	%			
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	3.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	5.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.10	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2922	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	139	%
Daily electricity consumption	Q _{elec}	3.820	kWh				
Annual electricity consumption	AEC	841	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-SWM120YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	132	%
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	1.87	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	4.65	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.8	kW	Tj = +12 °C	COPd	6.20	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7404	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				

Contact details

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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-SWM120YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	178	%			
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	2.75	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.50	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.00	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.00	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.75	-			
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.4	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5520	kWh	-	2640	m ³ /h				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				

Contact details

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

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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-SWM120YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	109	%
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	2.50	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.40	-
T _j = + 2 °C	P _{dh}	4.4	kW	T _j = + 7 °C	COP _d	4.60	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.80	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	1.45	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature (***)	COP _d	1.30	-
T _j = +12 °C	P _{dh}	4.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.40	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	9.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	7.8	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.9	kW				
Bivalent temperature	T _{biv}	-13	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	4.3	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10649	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	109	%
Daily electricity consumption	Q _{elec}	4.750	kWh				
Annual electricity consumption	AEC	1044	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-SWM120YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	141	%
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	3.50	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.00	-
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 7 °C	COP _d	5.20	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.50	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	1.95	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{dh}	5.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°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}	8.0	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}	0.022	kW	Rated heat output (*)	P _{sup}	4.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8267	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	109	%
Daily electricity consumption	Q _{elec}	4.750	kWh				
Annual electricity consumption	AEC	1044	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-SWM120YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	156	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 ° C	Pdh	12.1	kW	Tj = + 2 ° C	COPd	1.95	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.2	kW	Tj = +12 ° C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.95	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.95	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4060	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	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-SWM120YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	226	%			
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	3.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.10	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2825	kWh	-						
				2640						
Declared load profile				m ³ /h						
Daily electricity consumption	Q _{elec}	3.820	kWh							
Annual electricity consumption	AEC	841	kWh							

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				

Contact details				Manisa OSB 4.Kisim Kccilikoyosb 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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(**) 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-SWM120YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.7	kW	Tj = - 7 °C	COPd	1.87	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	4.65	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.8	kW	Tj = +12 °C	COPd	6.20	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7485	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS 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-SWM120YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	176	%
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	2.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.75	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	2.40	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	5600	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	134	%
Daily electricity consumption	Q _{elec}	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				

Contact details

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

· 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-SWM120YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	109	%
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	2.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.40	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.60	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.80	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.30	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.40	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	9.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	7.8	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	8.9	kW				
Bivalent temperature	Tbiv	-13	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.3	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10698	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM120YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	140	%
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	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.00	-
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.50	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	1.95	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	5.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.0	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	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}	0.022	kW	Rated heat output (*)	Psup	4.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8316	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	153	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 ° C	Pdh	12.1	kW	Tj = + 2 ° C	COPd	1.95	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.2	kW	Tj = +12 ° C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.95	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.95	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4157	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				

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Model(s):	Outdoor unit:	PUZ-SWM120YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12.1	kW	Seasonal space heating energy efficiency	η_s	218	%			
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	3.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	5.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.10	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2922	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	139	%
Daily electricity consumption	Q _{elec}	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				

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