

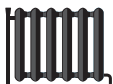


ENERG
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Indoor unit
Outdoor unit

E*ST20D-****D
PUZ-SWM140VAA



A+++

A++

A+

A

B

C

D

A++



A+

A

B

C

D

E

F

A+



41 dB



58 dB



- 14 kW
- 14 kW
- 14 kW

2019

811/2013

DG79V341H08

1		2		For medium-temperature application															For low-temperature application																					
Outdoor unit	Indoor unit	Medium-temperature application															Low-temperature application																							
		Seasonal space heating energy efficiency class															Seasonal space heating energy efficiency class																							
		Rated heat output under average climate conditions															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 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																							
PUZ-SWM60VAA	EHSD-****	✓	A++	6	126	3834	41	6	6	111	150	5181	2093	54	✓	A+++	6	181	2701	41	6	6	135	208	4284	1519	54	✓	A+++	6	184	2646	41	6	6	136	218	4251	1453	54
PUZ-SWM80VAA	EHSD-****	✓	A++	8	129	5016	41	8	8	111	162	6890	2584	54	✓	A+++	8	181	3599	41	8	8	141	219	5460	1928	54	✓	A+++	8	184	3543	41	8	8	142	227	5427	1862	54
PUZ-SWM80YAA	EHSD-****	✓	A++	8	128	5053	41	8	8	111	160	6923	2629	54	✓	A+++	8	179	3636	41	8	8	141	214	5493	1973	54	✓	A+++	8	183	3555	41	8	8	142	225	5444	1876	54
PUZ-SWM100VAA	EHSD-****	✓	A++	10	132	6106	41	10	10	109	156	8813	3362	58	✓	A+++	10	178	4564	41	10	10	147	223	6575	2369	58	✓	A+++	10	180	4509	41	10	10	147	229	6555	2302	58
PUZ-SWM100YAA	EHSD-****	✓	A++	10	132	6141	41	10	10	109	154	8840	3405	58	✓	A+++	10	177	4600	41	10	10	146	219	6601	2411	58	✓	A+++	10	180	4519	41	10	10	147	228	6565	2314	58
PUZ-SWM120VAA	EHSD-****	✓	A++	12	131	7450	41	12	12	109	154	10673	4115	58	✓	A+++	12	177	5566	41	12	12	141	221	8290	2882	58	✓	A+++	12	178	5511	41	12	12	141	227	8257	2816	58
PUZ-SWM120YAA	EHSD-****	✓	A++	12	132	7404	41	12	12	109	156	10649	4060	58	✓	A+++	12	178	5520	41	12	12	141	226	8267	2825	58	✓	A+++	12	178	5520	41	12	12	141	226	8267	2825	58
PUZ-SWM140VAA	EHSD-****	✓	A++	14	134	8438	41	14	14	104	150	12843	4893	58	✓	A+++	14	175	6483	41	14	14	132	219	10250	3367	58	✓	A+++	14	177	6428	41	14	14	132	224	10217	3301	58
PUZ-SWM140YAA	EHSD-****	✓	A++	14	134	8473	41	14	14	104	149	12867	4934	58	✓	A+++	14	175	6517	41	14	14	131	217	10275	3407	58	✓	A+++	14	177	6437	41	14	14	132	223	10226	3310	58
PUZ-SHWM60VAA	EHSD-****	✓	A++	6	129	3761	41	6	6	115	159	4993	1980	54	✓	A+++	6	184	2655	41	6	6	138	220	4202	1437	54	✓	A+++	6	184	2655	41	6	6	138	220	4202	1437	54
PUZ-SHWM80VAA	EHSD-****	✓	A++	8	132	4904	41	8	8	115	167	6705	2521	54	✓	A+++	8	184	3530	41	8	8	146	225	5299	1874	54	✓	A+++	8	184	3530	41	8	8	146	225	5299	1874	54
PUZ-SHWM80YAA	EHSD-****	✓	A++	8	133	4849	41	8	8	115	171	6672	2454	54	✓	A+++	8	187	3475	41	8	8	147	233	5266	1808	54	✓	A+++	8	187	3475	41	8	8	147	233	5266	1808	54
PUZ-SHWM80YAA	EHSD-****	✓	A++	8	131	4941	41	8	8	114	164	6737	2566	54	✓	A+++	8	182	3568	41	8	8	145	220	5332	1920	54	✓	A+++	8	182	3568	41	8	8	145	220	5332	1920	54
PUZ-SHWM100VAA	EHSD-****	✓	A++	10	136	5936	41	10	10	116	164	8272	3204	58	✓	A+++	10	183	4444	41	10	10	149	236	6480	2233	58	✓	A+++	10	183	4444	41	10	10	149	236	6480	2233	58
PUZ-SHWM100YAA	EHSD-****	✓	A++	10	138	5881	41	10	10	117	167	8239	3138	58	✓	A+++	10	185	4389	41	10	10	150	244	6447	2167	58	✓	A+++	10	185	4389	41	10	10	150	244	6447	2167	58
PUZ-SHWM120VAA	EHSD-****	✓	A++	12	136	7169	41	12	12	117	161	9902	3952	58	✓	A+++	12	179	5481	41	12	12	149	232	7843	2753	58	✓	A+++	12	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	✓	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	✓	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	✓	A+++	14	184	6181	41	14	14	154	229	8816	3222	58

English	Deutsch	Franciais	Italiano	Espanol
Nederlands	Svenska	Dansk	Português	Ελληνικά
suomi	Česina	Български	Polski	Ελληνικά
Outdoor unit	Außengerät	unit extérieure	unita esterna	unitad exterior
1	Binnenluft	Uterior's enlhed	unidad exterior	Εξωτερική μονάδα
Ulkokuiskko	Venkovni jednotka	Вышнее ядро	jednostka zewnętrzna	-
Indoor unit	innegerät	unité intérieure	unita interna	unitad interior
2	Binnenunit	Innendørs enhed	unidad interior	Εσωτερική μονάδα
Sisäyksisko	Vnitřní jednotka	Внутреннее ядро	jednostka wewnętrzna	-
3	Medium-temperature application	Application à moyenne température	la aplicación a media temperatura	la aplicación de media temperatura
Medium-temperature-cooling	Medium-temperature-application	middle-temperature-cooling	a aplicación a media temperatura	la aplicación de media temperatura
3	Kesäilmäpölyn sovellus	среднотемпературного применение	zasosowanie w średniej temperaturze	-
4	Low-temperature application	Application à basse température	la aplicación a bassa temperatura	la aplicación de baja temperatura
4	Legen-temperatur-cooling	Legen-temperatur-cooling	a aplicación a baja temperatura	la aplicación de baja temperatura
4	maailmanpölyn sovellus	использование при комнатной температуре	zasosowanie w niskiej temperaturze	la aplicación de baja temperatura
Declared load profile	Anderedenes lastprofil	Profil de soulagere déclaré	Profilo di carico dichiarato	Perfil de carga declarado
5	Opgegeven capaciteitsprofiel	Объявленый нагрузочный профиль	Deklarowany profil obciążenia	Δηλωμένο προφίλ φόρτου
5	Immoittelu kuormitusprofiili	Объявленый нагрузочный профиль	Deklarowany profil obciążenia	Δηλωμένο προφίλ φόρτου
6	Seasonal space heating energy efficiency class	la classe de l'efficacité énergétique saisonnière, pour le chauffage des locaux	la classe di efficienza energetica stagionale del riscaldamento d'ambiente	la classe de eficiencia energética estacional de calefacción
6	de seizoenoverstroomden energie-efficiëntieklass voor ruimteverwarming	la classe de l'efficacité énergétique saisonnière, pour le chauffage des locaux	A classe de eficiencia energética do aquecimento ambiente sazonal	la clase de eficiencia energética de calefacción
6	Ilalaimittuksessa vuorokauden energiatilavuuden energiatilavuusluokka	la classe de l'efficacité énergétique saisonnière, pour le chauffage des locaux	Klassi sezonovnojen efektiivuuden energiatilavuuden orgzavennia romissazzeni	la clase de eficiencia energética de calefacción
7	Wäter heating energy efficiency class	la classe de l'efficacité énergétique, pour le chauffage de l'eau	A classe di efficienza energetica do aquecimento de água	la clase de eficiencia energética de calefacción
7	de energie-efficiëntieklass voor ruimteverwarming	Klassen for atmosfæringsgrad ved vandvarmning	A classe di efficienza energetica do aquecimento de água	la clase de eficiencia energética de calefacción
7	vedelämmityksessä vuorokauden energiatilavuusluokka	la classe de l'efficacité énergétique, pour le chauffage de l'eau	Klassi efektiivuuden energiatilavuuden orgzavennia romissazzeni	la clase de eficiencia energética de calefacción
Rated heat output under average climate conditions	la puissance thermique nominale dans les conditions climatiques moyennes	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 klimaatsomstandigheden	la puissance thermique nominale dans les conditions climatiques moyennes	A potencia calorífica nominal en condiciones climáticas medias	la potencia calorífica nominal en condiciones climáticas medias
8	Ilmalaimittuksessa vuorokauden energiatilavuusluokka (kesäilmäolotilassa)	la puissance thermique nominale dans les conditions climatiques moyennes	A potencia calorífica nominal en condiciones climáticas medias	la potencia calorífica nominal en condiciones climáticas medias
9	For space heating, annual energy consumption under average climate conditions	pour le chauffage des locaux, la consommation annuelle d'énergie (pour sredni klimatichnyi usloviia)	para o aquecimento ambiente, o consumo anual de energia (em condições climáticas médias)	para calefacción ambiental, el consumo anual de energía (en condiciones climáticas medias)
9	voortuimverwarming, het jaarlijkse energieverbruik onder gemiddelde klimaatsomstandigheden	pour le chauffage des locaux, la consommation annuelle d'énergie (pour sredni klimatichnyi usloviia)	para o aquecimento ambiente, o consumo anual de energia (em condições climáticas médias)	para calefacción ambiental, el consumo anual de energía (en condiciones climáticas medias)
10	For water heating, annual electricity consumption under average climate conditions	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para o aquecimento de água, o consumo anual de eletricidade (em condições climáticas médias)	para calefacción de agua, el consumo anual de electricidad (en condiciones climáticas medias)
10	voortuimverwarming, het jaarlijkse elektriciteitsverbruik onder gemiddelde klimaatsomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para o aquecimento de água, o consumo anual de eletricidade (em condições climáticas médias)	para calefacción de agua, el consumo anual de electricidad (en condiciones climáticas medias)
11	Seasonal space heating energy efficiency under average climate conditions	la efficacité énergétique saisonnière pour le chauffage des locaux (dans les conditions climatiques moyennes)	la eficiencia energética do aquecimento ambiente sazonal (em condições climáticas médias)	la eficiencia energética de calefacción estacional de calefacción (en condiciones climáticas medias)
11	de seizoenoverstroomden energie-efficiëntie voor ruimteverwarming onder gemiddelde klimaatsomstandigheden	la efficacité énergétique saisonnière pour le chauffage des locaux (dans les conditions climatiques moyennes)	la eficiencia energética do aquecimento ambiente sazonal (em condições climáticas médias)	la eficiencia energética de calefacción estacional de calefacción (en condiciones climáticas medias)
12	de energie-efficiëntie voor waterverwarming onder gemiddelde klimaatsomstandigheden	la efficacité énergétique pour le chauffage de l'eau (dans les conditions climatiques moyennes)	la eficiencia energética de calefacción de agua (en condiciones climáticas medias)	la eficiencia energética de calefacción de agua (en condiciones climáticas medias)
12	vedelämmityksessä vuorokauden energiatilavuusluokka (kesäilmäolotilassa)	la efficacité énergétique pour le chauffage de l'eau (dans les conditions climatiques moyennes)	la eficiencia energética de calefacción de agua (en condiciones climáticas medias)	la eficiencia energética de calefacción de agua (en condiciones climáticas medias)
13	Sound power level L _{WA} indoor	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
13	het geluidsoverbrengingsniveau L _{WA} binnen	le niveau de puissance acoustique L _{WA} à l'intérieur	O nivel de potencia sonora L _{WA} no interior	el nivel de potencia acústica L _{WA} en interiores
14	Work only during off-peak hours	fonctionne qu'en heures creuses	funziona soltanto durante le ore notturne	funciona solamente durante las horas de baja demanda
14	werken uitsluitend in de daluren	fonctionne qu'en heures creuses	funziona soltanto durante le ore notturne	funciona solamente durante las horas de baja demanda
15	Rated heat output under colder climate conditions	la puissance thermique plus froide	la potencia térmica más fría	la potencia calorífica nominal en condiciones climáticas más frías
15	de nominale warmteafgifte, onder kouder klimaatsomstandigheden	la puissance thermique plus froide	la potencia térmica más fría	la potencia calorífica nominal en condiciones climáticas más frías
16	Ilmalaimittuksessa vuorokauden energiatilavuusluokka	la puissance thermique plus froide	la potencia térmica más fría	la potencia calorífica nominal en condiciones climáticas más frías
16	Rated heat output under warmer climate conditions	la puissance thermique plus chaude	la potencia térmica más caliente	la potencia calorífica nominal en condiciones climáticas más cálidas
16	de nominale warmteafgifte, onder warmer klimaatsomstandigheden	la puissance thermique plus chaude	la potencia térmica más caliente	la potencia calorífica nominal en condiciones climáticas más cálidas
17	For space heating, annual energy consumption under colder climate conditions	pour le chauffage des locaux, la consommation annuelle d'énergie (pour sredni klimatichnyi usloviia)	para o aquecimento ambiente, o consumo anual de energia (em condições climáticas médias)	para calefacción ambiental, el consumo anual de energía (en condiciones climáticas medias)
17	voortuimverwarming, het jaarlijkse energieverbruik onder kouder klimaatsomstandigheden	pour le chauffage des locaux, la consommation annuelle d'énergie (pour sredni klimatichnyi usloviia)	para o aquecimento ambiente, o consumo anual de energia (em condições climáticas médias)	para calefacción ambiental, el consumo anual de energía (en condiciones climáticas medias)
18	For space heating, annual energy consumption under warmer climate conditions	pour le chauffage des locaux, la consommation annuelle d'énergie (pour sredni klimatichnyi usloviia)	para o aquecimento ambiente, o consumo anual de energia (em condições climáticas médias)	para calefacción ambiental, el consumo anual de energía (en condiciones climáticas medias)
18	voortuimverwarming, het jaarlijkse energieverbruik onder warmer klimaatsomstandigheden	pour le chauffage des locaux, la consommation annuelle d'énergie (pour sredni klimatichnyi usloviia)	para o aquecimento ambiente, o consumo anual de energia (em condições climáticas médias)	para calefacción ambiental, el consumo anual de energía (en condiciones climáticas medias)
19	For water heating, annual energy consumption under colder climate conditions	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para o aquecimento de água, o consumo anual de eletricidade (em condições climáticas médias)	para calefacción de agua, el consumo anual de electricidad (en condiciones climáticas medias)
19	voortuimverwarming, het jaarlijkse elektriciteitsverbruik onder kouder klimaatsomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para o aquecimento de água, o consumo anual de eletricidade (em condições climáticas médias)	para calefacción de agua, el consumo anual de electricidad (en condiciones climáticas medias)
20	For water heating, annual energy consumption under warmer climate conditions	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para o aquecimento de água, o consumo anual de eletricidade (em condições climáticas médias)	para calefacción de agua, el consumo anual de electricidad (en condiciones climáticas medias)
20	voortuimverwarming, het jaarlijkse elektriciteitsverbruik onder warmer klimaatsomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para o aquecimento de água, o consumo anual de eletricidade (em condições climáticas médias)	para calefacción de agua, el consumo anual de electricidad (en condiciones climáticas medias)
21	Seasonal space heating energy efficiency under colder climate conditions	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques moyennes	la eficiencia energética do aquecimento ambiente sazonal em condições climáticas médias	la eficiencia energética estacional de calefacción en condiciones climáticas medias
21	de seizoenoverstroomden energie-efficiëntie voor ruimteverwarming onder kouder klimaatsomstandigheden	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques moyennes	la eficiencia energética do aquecimento ambiente sazonal em condições climáticas médias	la eficiencia energética estacional de calefacción en condiciones climáticas medias
22	de seizoenoverstroomden energie-efficiëntie voor ruimteverwarming onder warmer klimaatsomstandigheden	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques moyennes	la eficiencia energética do aquecimento ambiente sazonal em condições climáticas médias	la eficiencia energética estacional de calefacción en condiciones climáticas medias
22	Ilalaimittuksessa vuorokauden energiatilavuusluokka (kesäilmäolotilassa)	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques moyennes	la eficiencia energética do aquecimento ambiente sazonal em condições climáticas médias	la eficiencia energética estacional de calefacción en condiciones climáticas medias
23	Wäter heating energy efficiency under colder climate conditions	la efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques moyennes	la eficiencia energética de calefacción de agua, en condiciones climáticas medias	la eficiencia energética de calefacción de agua, en condiciones climáticas medias
23	de energie-efficiëntie voor waterverwarming onder kouder klimaatsomstandigheden	la efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques moyennes	la eficiencia energética de calefacción de agua, en condiciones climáticas medias	la eficiencia energética de calefacción de agua, en condiciones climáticas medias
23	vedelämmityksessä vuorokauden energiatilavuusluokka	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
24	Wäter heating energy efficiency under warmer climate conditions	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
24	de energie-efficiëntie voor waterverwarming onder warmer klimaatsomstandigheden	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
25	Sound power level L _{WA} outdoor	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 geluidsoverbrengingsniveau L _{WA} buiten	le niveau de puissance acoustique L _{WA} à l'extérieur	O nivel de potencia sonora L _{WA} no exterior	el nivel de potencia acústica L _{WA} en exteriores
26	Ilmalaimittuksessa vuorokauden energiatilavuusluokka	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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	12.4	kW	Tj = - 7 °C	COPd	1.98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	7.5	kW	Tj = + 2 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.3	kW	Tj = + 7 °C	COPd	4.61	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.9	kW	Tj = +12 °C	COPd	6.28	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	3.0	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}	8438	kWh				

For heat pump combination heater:

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

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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

The identification and signature of the person empowered to bind the supplier:

Kenichi SAITO

Manager, Quality Assurance Department
TURKEY

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(**) 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-SWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	175	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	2.70	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4.51	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.03	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	2.70	-			
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.0	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}	6483	kWh	-	2640	m ³ /h				

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

Contact details							
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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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	104	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.5	kW	T _j = - 7 °C	COP _d	2.20	-
Degradation co-efficient (**)	C _{dh}	1.00	-	T _j = + 2 °C	COP _d	3.30	-
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.60	-
T _j = + 7 °C	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = operation limit temperature (***)	COP _d	1.20	-
T _j = +12 °C	P _{dh}	4.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.98	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	10.7	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	8.0	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.5	kW				
Bivalent temperature	T _{biv}	-13	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	6.0	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	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	12843	kWh				

For heat pump combination heater:

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

Contact details

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	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	8.5	kW	Tj = - 7 °C	COPd	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.60	-
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	5.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.60	-
Tj = + 7 °C	Pdh	4.6	kW	Tj = bivalent temperature	COPd	1.90	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	4.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.90	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	9.2	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	11.4	kW				
Bivalent temperature	Tbiv	-16	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	4.8	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}	10250	kWh				

For heat pump combination heater:

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	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	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	1.90	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.015	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}	4893	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

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

Contact details

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(**) 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-SWM140VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	219	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	5.01	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.1	kW	Tj = +12 °C	COPd	7.01	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.015	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}	3367	kWh	-	2640	m ³ /h				

For heat pump combination heater:

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

Contact details

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(**) 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-SWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	135	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	12.4	kW	Tj = - 7 °C	COPd	1.98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	7.5	kW	Tj = + 2 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.3	kW	Tj = + 7 °C	COPd	4.61	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.9	kW	Tj = +12 °C	COPd	6.28	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	3.0	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}	8383	kWh				

For heat pump combination heater:

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

Contact details

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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-SWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	177	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	2.70	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4.51	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.03	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	2.70	-			
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.0	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}	6428	kWh	-		2640	m ³ /h			

For heat pump combination heater:

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

Contact details

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

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(**) 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-SWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	105	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	8.5	kW	Tj = - 7 °C	COPd	2.20	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	3.30	-
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	4.30	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.60	-
Tj = + 7 °C	Pdh	4.4	kW	Tj = bivalent temperature	COPd	1.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.20	-
Tj = +12 °C	Pdh	4.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.60	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	10.7	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.0	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	10.5	kW				
Bivalent temperature	Tbiv	-13	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	6.0	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}	12810	kWh				

For heat pump combination heater:

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.5	kW	T _j = - 7 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.60	-
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	5.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.60	-
T _j = + 7 °C	P _{dh}	4.6	kW	T _j = bivalent temperature	COP _d	1.90	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{dh}	4.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.90	-
Degradation co-efficient (**)	C _{dh}	0.98	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	9.2	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	11.4	kW				
Bivalent temperature	T _{biv}	-16	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	4.8	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}	10217	kWh				

For heat pump combination heater:

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

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(**) If 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-SWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	152	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	1.90	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.015	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}	4826	kWh							

For heat pump combination heater:

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	224	%			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-			
Degradation co-efficient (**)	Cdh	-	-							
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	5.01	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.1	kW	Tj = +12 °C	COPd	7.01	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.015	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}	3301	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	12.4	kW	Tj = - 7 °C	COPd	1.98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	7.5	kW	Tj = + 2 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.3	kW	Tj = + 7 °C	COPd	4.61	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.9	kW	Tj = +12 °C	COPd	6.28	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	3.0	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}	8438	kWh				

For heat pump combination heater:

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

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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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-SWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	175	%			
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj						
Tj = - 7 ° C	Pdh	12.4	kW	Tj = - 7 ° C	COPd	2.70	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4.51	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7.03	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	2.70	-			
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.0	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}	6483	kWh	-	2640	m ³ /h				

For heat pump combination heater:

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

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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-SWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	104	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.5	kW	T _j = - 7 °C	COP _d	2.20	-
Degradation co-efficient (**)	C _{dh}	1.00	-	T _j = + 2 °C	COP _d	3.30	-
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.60	-
T _j = + 7 °C	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = operation limit temperature (***)	COP _d	1.20	-
T _j = +12 °C	P _{dh}	4.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.60	-
Degradation co-efficient (**)	C _{dh}	0.98	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	10.7	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	8.0	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.5	kW				
Bivalent temperature	T _{biv}	-13	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	6.0	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}	12843	kWh				

For heat pump combination heater:

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

Contact details

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

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(***) If 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-SWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.5	kW	T _j = - 7 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.60	-
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	5.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.60	-
T _j = + 7 °C	P _{dh}	4.6	kW	T _j = bivalent temperature	COP _d	1.90	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{dh}	4.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.90	-
Degradation co-efficient (**)	C _{dh}	0.98	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	11.8	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	9.2	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	11.4	kW				
Bivalent temperature	T _{biv}	-16	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	4.8	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}	10250	kWh				

For heat pump combination heater:

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	1.90	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	8.8	kW	Tj = + 7 °C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	5.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	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}	4893	kWh				

For heat pump combination heater:

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM140VAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	η_s	219	%
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}	–	kW	T _j = - 7 °C	COP _d	–	–
Degradation co-efficient (**)	C _{dh}	–	–				
T _j = + 2 °C	P _{dh}	14.0	kW	T _j = + 2 °C	COP _d	3.10	–
Degradation co-efficient (**)	C _{dh}	1.00	–				
T _j = + 7 °C	P _{dh}	9.0	kW	T _j = + 7 °C	COP _d	5.01	–
Degradation co-efficient (**)	C _{dh}	0.99	–				
T _j = +12 °C	P _{dh}	5.1	kW	T _j = +12 °C	COP _d	7.01	–
Degradation co-efficient (**)	C _{dh}	0.98	–				
T _j = bivalent temperature	P _{dh}	14.0	kW	T _j = bivalent temperature	COP _d	3.10	–
T _j = operation limit temperature (***)	P _{dh}	14.0	kW	T _j = operation limit temperature (***)	COP _d	3.10	–
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	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	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}	3367	kWh				

For heat pump combination heater:

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

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