ENERG Y IJA IE IA

енергия · ενεργεια

MITSUBISHI ELECTRIC

Indoor unit E*ST20D-****D

Outdoor unit PUZ-SHWM120YAA

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

DG79V341H16

PRODUCT FICHE

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

1.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	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 colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	Sound power level L_{WA} outdoor	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 colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	Sound power level L_{WA} outdoor
				kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB			kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB
PUZ-SWM60VAA	EHSD-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	A++	8	128	5053	41	8	8	111	162	6923	2584	54	✔	A+++	8	179	3636	41	8	8	141	219	5493	1928	54
	ERSD-****D	✔	A++	8	130	4972	41	8	8	112	167	6875	2517	54	✔	A+++	8	183	3555	41	8	8	142	227	5444	1862	54
PUZ-SWM100VAA	EHSD-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	A++	8	131	4941	41	8	8	114	167	6737	2521	54	✔	A+++	8	182	3568	41	8	8	145	225	5332	1874	54
	ERSD-****D	✔	A++	8	133	4860	41	8	8	115	171	6689	2454	54	✔	A+++	8	187	3487	41	8	8	146	233	5284	1808	54
PUZ-SHWM100VAA	EHSD-****D	✔	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-****D	✔	A++	10	138	5881	41	10	10	117	167	8239	3138	58	✔	A+++	10	185	4389	41	10	10	150	244	6447	2167	58
PUZ-SHWM100YAA	EHSD-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	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-****D	✔	A++	14	142	7974	41	14	14	116	158	11625	4659	58	✔	A+++	14	184	6181	41	14	14	154	229	8816	3222	58

2.COMBINATION HEATER

For medium-temperature application

1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Outdoor unit	Indoor unit	Medium-temperature application	Declared load profile	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual electricity consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L_{WA} indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L_{WA} outdoor
						kW	kWh	kWh	%	%	dB		kW	kW	kWh	kWh	kWh	kWh	%	%	%	%	dB
PUZ-SWM60VAA	EHST17D-****D	✔	L	A++	A+	6	3834	880	126	134	41	-	6	6	5181	2093	1060	846	111	150	105	135	54
	ERST17D-****D	✔	L	A++	A+	6	3779	880	128	134	41	-	6	6	5147	2027	1060	846	112	155	105	135	54
	EHST20D-****D	✔	L	A++	A+	6	3834	898	126	134	41	-	6	6	5181	2093	1044	841	111	150	109	139	54
	ERST20D-****D	✔	L	A++	A+	6	3779	898	128	134	41	-	6	6	5147	2027	1044	841	112	155	109	139	54
	EHST30D-****D	✔	XL	A++	A+	6	3834	1404	126	133	41	-	6	6	5181	2093	1650	1232	111	150	111	155	54
	ERST30D-****D	✔	XL	A++	A+	6	3779	1404	128	133	41	-	6	6	5147	2027	1650	1232	112	155	111	155	54
PUZ-SWM80VAA	EHST17D-****D	✔	L	A++	A+	8	5016	880	129	134	41	-	8	8	6890	2584	1060	846	111	162	105	135	54
	ERST17D-****D	✔	L	A++	A+	8	4961	880	130	134	41	-	8	8	6857	2517	1060	846	112	167	105	135	54
	EHST20D-****D	✔	L	A++	A+	8	5016	898	129	134	41	-	8	8	6890	2584	1044	841	111	162	109	139	54
	ERST20D-****D	✔	L	A++	A+	8	4961	898	130	134	41	-	8	8	6857	2517	1044	841	112	167	109	139	54
	EHST30D-****D	✔	XL	A++	A+	8	5016	1404	129	133	41	-	8	8	6890	2584	1650	1232	111	162	111	155	54
	ERST30D-****D	✔	XL	A++	A+	8	4961	1404	130	133	41	-	8	8	6857	2517	1650	1232	112	167	111	155	54
PUZ-SWM80YAA	EHST17D-****D	✔	L	A++	A+	8	5053	880	128	134	41	-	8	8	6923	2584	1060	846	111	162	105	135	54
	ERST17D-****D	✔	L	A++	A+	8	4972	880	130	134	41	-	8	8	6875	2517	1060	846	112	167	105	135	54
	EHST20D-****D	✔	L	A++	A+	8	5053	898	128	134	41	-	8	8	6923	2584	1044	841	111	162	109	139	54
	ERST20D-****D	✔	L	A++	A+	8	4972	898	130	134	41	-	8	8	6875	2517	1044	841	112	167	109	139	54
	EHST30D-****D	✔	XL	A++	A+	8	5053	1404	128	133	41	-	8	8	6923	2584	1650	1232	111	162	111	155	54
	ERST30D-****D	✔	XL	A++	A+	8	4972	1404	130	133	41	-	8	8	6875	2517	1650	1232	112	167	111	155	54
PUZ-SWM100VAA	EHST20D-****D	✔	L	A++	A+	10	6106	898	132	134	41	-	10	10	8813	3362	1044	841	109	156	109	139	58
	ERST20D-****D	✔	L	A++	A+	10	6051	898	134	134	41	-	10	10	8780	3296	1044	841	109	159	109	139	58
	EHST30D-****D	✔	XL	A++	A+	10	6106	1404	132	133	41	-	10	10	8813	3362	1650	1232	109	156	111	155	58
	ERST30D-****D	✔	XL	A++	A+	10	6051	1404	134	133	41	-	10	10	8780	3296	1650	1232	109	159	111	155	58
PUZ-SWM100YAA	EHST20D-****D	✔	L	A++	A+	10	6141	898	132	134	41	-	10	10	8840	3405	1044	841	109	154	109	139	58
	ERST20D-****D	✔	L	A++	A+	10	6061	898	133	134	41	-	10	10	8791	3308	1044	841	109	159	109	139	58
	EHST30D-****D	✔	XL	A++	A+	10	6141	1404	132	133	41	-	10	10	8840	3405	1650	1232	109	154	111	155	58
	ERST30D-****D	✔	XL	A++	A+	10	6061	1404	133	133	41	-	10	10	8791	3308	1650	1232	109	159	111	155	58
PUZ-SWM120VAA	EHST20D-****D	✔	L	A++	A+	12	7450	898	131	134	41	-	12	12	10673	4115	1044	841	109	154	109	139	58
	ERST20D-****D	✔	L	A++	A+	12	7395	898	132	134	41	-	12	12	10640	4049	1044	841	109	157	109	139	58
	EHST30D-****D	✔	XL	A++	A+	12	7450	1404	131	133	41	-	12	12	10673	4115	1650	1232	109	154	111	155	58
	ERST30D-****D	✔	XL	A++	A+	12	7395	1404	132	133	41	-	12	12	10640	4049	1650	1232	109	157	111	155	58
PUZ-SWM120YAA	EHST20D-****D	✔	L	A++	A+	12	7485	898	131	134	41	-	12	12	10698	4157	1044	841	109	153	109	139	58
	ERST20D-****D	✔	L	A++	A+	12	7404	898	132	134	41	-	12	12	10649	4060	1044	841	109	156	109	139	58
	EHST30D-****D	✔	XL	A++	A+	12	7485	1404	131	133	41	-	12	12	10698	4157	1650	1232	109	153	111	155	58
	ERST30D-****D	✔	XL	A++	A+	12	7404	1404	132	133	41	-	12	12	10649	4060	1650	1232	109	156	111	155	58
PUZ-SWM140VAA	EHST20D-****D	✔	L	A++	A+	14	8438	965	134	123	41	-	14	14	12843	4893	1070	888	104	150	105	130	58
	ERST20D-****D	✔	L	A++	A+	14	8383	965	135	123	41	-	14	14	12810	4826	1070	888	105	152	105	130	58
	EHST30D-****D	✔	XL	A++	A	14	8438	1610	134	114	41	-	14	14	12843	4893	1755	1434	104	150	104	130	58
	ERST30D-****D	✔	XL	A++	A	14	8383	1610	135	114	41	-	14	14	12810	4826	1755	1434	105	152	104	130	58
PUZ-SWM140YAA	EHST20D-****D	✔	L	A++	A+	14	8473	965	134	123	41	-	14	14	12867	4934	1070	888	104	149	105	130	58
	ERST20D-****D	✔	L	A++	A+	14	8392	965	135	123	41	-	14	14	12819	4837	1070	888	105	152	105	130	58
	EHST30D-****D	✔	XL	A++	A	14	8473	1610	134	114	41	-	14	14	12867	4934	1755	1434	104	149	104	130	58
	ERST30D-****D	✔	XL	A++	A	14	8392	1610	135	114	41	-	14	14	12819	4837	1755	1434	105	152	104	130	58
PUZ-SHWM60VAA	EHST17D-****D	✔	L	A++	A+	6	3761	880	129	134	41	-	6	6	4993	1980	1060	846	115	159	105	135	54
	ERST17D-****D	✔	L	A++	A+	6	3706	880	131	134	41	-	6	6	4960	1914	1060	846	116	165	105	135	54
	EHST20D-****D	✔	L	A++	A+	6	3761	898	129	134	41	-	6	6	4993	1980	1044	841	115	159	109	139	54
	ERST20D-****D	✔	L	A++	A+	6	3706	898	131	134	41	-	6	6	4960	1914	1044	841	116	165	109	139	54
	EHST30D-****D	✔	XL	A++	A+	6	3761	1404	129	133	41	-	6	6	4993	1980	1650	1232	115	159	111	155	54
	ERST30D-****D	✔	XL	A++	A+	6	3706	1404	131	133	41	-	6	6	4960	1914	1650	1232	116	165	111	155	54
PUZ-SHWM80VAA	EHST17D-****D	✔	L	A++	A+	8	4904	880	132	134	41	-	8	8	6705	2521	1060	846	115	167	105	135	54
	ERST17D-****D	✔	L	A++	A+	8	4849	880	133	134	41	-	8	8	6672	2454	1060	846	115	171	105	135	54
	EHST20D-****D	✔	L	A++	A+	8	4904	898	132	134	41	-	8	8	6705	2521	1044	841	115	167	109	139	54
	ERST20D-****D	✔	L	A++	A+	8	4849	898	133	134	41	-	8	8	6672	2454	1044	841	115	171	109	139	54
	EHST30D-****D	✔	XL	A++	A+	8	4904	1404	132	133	41	-	8	8	6705	2521	1650	1232	115	167	111	155	54
	ERST30D-****D	✔	XL	A++	A+	8	4849	1404	133	133	41	-	8	8	6672	2454	1650	1232	115	171	111	155	54
PUZ-SHWM80YAA	EHST17D-****D	✔	L	A++	A+	8	4941	880	131	134	41	-	8	8	6737	2521	1060	846	114	167	105	135	54
	ERST17D-****D	✔	L	A++	A+	8	4860	880	133	134	41	-	8	8	6689	2454	1060	846	115	171	105	135	54
	EHST20D-****D	✔	L	A++	A+	8	4941	898	131	134	41	-	8	8	6737	2521	1044	841	114	167	109	139	54
	ERST20D-****D	✔	L	A++	A+	8	4860	898	133	134	41	-	8	8	6689	2454	1044	841	115	171	109	139	54
	EHST30D-****D	✔	XL	A++	A+	8	4941	1404	131	133	41	-	8	8	6737	2521	1650	1232	114	167	111	155	54
	ERST30D-****D	✔	XL	A++	A+	8	4860	1404	133	133	41	-	8	8	6689	2454	1650	1232	115	171	111	155	54
PUZ-SHWM100VAA	EHST20D-****D	✔	L	A++	A+	10	5936	898	136	134	41	-	10	10	8272	3204	1044	841	116	164	109	139	58
	ERST20D-****D	✔	L	A++	A+	10	5881	898	138	134	41	-	10	10	8239	3138	1044	841	117	167	109	139	58
	EHST30D-****D	✔	XL	A++	A+	10	5936	1404	136	133	41	-	10	10	8272	3204	1650	1232	116	164	111	155	58
	ERST30D-****D	✔	XL	A++	A+	10	5881	1404	138	133	41	-	10	10	8239	3138	1650	1232	117	167	111	155	58
PUZ-SHWM100YAA	EHST20D-****D	✔	L	A++	A+	10	5972	898	135	134	41	-	10	10	8298	3246	1044	841	116	162	109	139	58
	ERST20D-****D	✔	L	A++	A+	10	5891	898	137	134	41	-	10	10	8250	3149	1044	841	117	167	109	139	58
	EHST30D-****D	✔	XL	A++	A+	10	5972	1404	135	133	41	-	10	10	8298	3246	1650	1232	116	162	111	155	58
	ERST30D-****D	✔	XL	A++	A+	10	5891	1404	137	133	41	-	10	10	8250	3149	1650	1232	117	167	111	155	58
PUZ-SHWM120VAA	EHST20D-****D	✔	L	A++	A+	12	7169	898	136	134	41	-	12	12	9902	3952	1044	841	117	161	109	139	58
	ERST20D-****D	✔	L	A++	A+	12	7114	898	138	134	41	-	12	12	9869	3886	1044	841	118	163	109	139	58
	EHST30D-****D	✔	XL	A++	A+	12	7169	1404	136	133	41	-	12	12	9902	3952	1650	1232	117	161	111	155	58
	ERST30D-****D	✔	XL	A++	A+	12	7114	1404	138	133	41	-	12	12	9869	3886	1650	1232	118	163	111	155	58
PUZ-SHWM120YAA	EHST20D-****D	✔	L	A++	A+	12	7204	898	136	134	41	-	12	12	9927	3995	1044	841	117	159	109	139	58
	ERST20D-****D	✔	L	A++	A+	12	7123	898	137	134	41	-	12	12	9878	3898	1044	841	118	163	109	139	58
	EHST30D-****D	✔	XL	A++	A+	12	7204	1404	136	133	41	-	12	12	9927	3995	1650	1232	117	159	111	155	58
	ERST30D-****D	✔	XL	A++	A+	12	7123	1404	137	133	41	-	12	12	9878	3898	1650	1232	118	163	111	155	58
PUZ-SHWM140VAA	EHST20D-****D	✔	L	A++	A+	14	8021	965	141	123	41	-	14	14	11650	4715	1070	888	115	156	105	130	58
	ERST20D-****D	✔	L	A++	A+	14	7965	965	142	123	41	-	14	14	11617	4649	1070	888	116	158	105	130	58
	EHST30D-****D	✔	XL	A++	A	14	8021	1610	141	114	41	-	14	14	11650	4715	1755	1434	115	156	104	130	58
	ERST30D-****D	✔	XL	A++	A	14	7965	1610	142	114	41	-	14	14	11617	4649	1755	1434	116	158	104	130	58
PUZ-SHWM140YAA	EHST20D-****D	✔	L	A++	A+	14	8055	965	141	123	41	-	14	14	11674	4757	1070	888	115	154	105	130	58
	ERST20D-****D	✔	L	A++	A+	14	7974	965	142	123	41	-	14	14	11625	4659	1070	888	116	158	105	130	58
	EHST30D-****D	✔	XL	A++	A	14	8055	1610	141	114	41	-	14	14	11674	4757	1755	1434	115	154	104	130	58
	ERST30D-****D	✔	XL	A++	A	14	7974	1610	142	114	41	-	14	14	11625	4659	1755	1434	116	158	104	130	58

For low-temperature application

1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Outdoor unit	Indoor unit	Low-temperature application	Declared load profile	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual electricity consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L_{WA} indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L_{WA} outdoor
						kW	kWh	kWh	%	%	dB		kW	kW	kWh	kWh	kWh	kWh	%	%	%	%	dB
PUZ-SWM60VAA	EHST17D-****D	✔	L	A+++	A+	6	2701	880	181	134	41	-	6	6	4284	1519	1060	846	135	208	105	135	54
	ERST17D-****D	✔	L	A+++	A+	6	2646	880	184	134	41	-	6	6	4251	1453	1060	846	136	218	105	135	54
	EHST20D-****D	✔	L	A+++	A+	6	2701	898	181	134	41	-	6	6	4284	1519	1044	841	135	208	109	139	54
	ERST20D-****D	✔	L	A+++	A+	6	2646	898	184	134	41	-	6	6	4251	1453	1044	841	136	218	109	139	54
	EHST30D-****D	✔	XL	A+++	A+	6	2701	1404	181	133	41	-	6	6	4284	1519	1650	1232	135	208	111	155	54
	ERST30D-****D	✔	XL	A+++	A+	6	2646	1404	184	133	41	-	6	6	4251	1453	1650	1232	136	218	111	155	54
PUZ-SWM80VAA	EHST17D-****D	✔	L	A+++	A+	8	3599	880	181	134	41	-	8	8	5460	1928	1060	846	141	219	105	135	54
	ERST17D-****D	✔	L	A+++	A+	8	3543	880	184	134	41	-	8	8	5427	1862	1060	846	142	227	105	135	54
	EHST20D-****D	✔	L	A+++	A+	8	3599	898	181	134	41	-	8	8	5460	1928	1044	841	141	219	109	139	54
	ERST20D-****D	✔	L	A+++	A+	8	3543	898	184	134	41	-	8	8	5427	1862	1044	841	142	227	109	139	54
	EHST30D-****D	✔	XL	A+++	A+	8	3599	1404	181	133	41	-	8	8	5460	1928	1650	1232	141	219	111	155	54
	ERST30D-****D	✔	XL	A+++	A+	8	3543	1404	184	133	41	-	8	8	5427	1862	1650	1232	142	227	111	155	54
PUZ-SWM80YAA	EHST17D-****D	✔	L	A+++	A+	8	3636	880	179	134	41	-	8	8	5493	1928	1060	846	141	219	105	135	54
	ERST17D-****D	✔	L	A+++	A+	8	3555	880	183	134	41	-	8	8	5444	1862	1060	846	142	227	105	135	54
	EHST20D-****D	✔	L	A+++	A+	8	3636	898	179	134	41	-	8	8	5493	1928	1044	841	141	219	109	139	54
	ERST20D-****D	✔	L	A+++	A+	8	3555	898	183	134	41	-	8	8	5444	1862	1044	841	142	227	109	139	54
	EHST30D-****D	✔	XL	A+++	A+	8	3636	1404	179	133	41	-	8	8	5493	1928	1650	1232	141	219	111	155	54
	ERST30D-****D	✔	XL	A+++	A+	8	3555	1404	183	133	41	-	8	8	5444	1862	1650	1232	142	227	111	155	54
PUZ-SWM100VAA	EHST20D-****D	✔	L	A+++	A+	10	4564	898	178	134	41	-	10	10	6575	2369	1044	841	147	223	109	139	58
	ERST20D-****D	✔	L	A+++	A+	10	4509	898	180	134	41	-	10	10	6555	2302	1044	841	147	229	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	10	4564	1404	178	133	41	-	10	10	6575	2369	1650	1232	147	223	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	10	4509	1404	180	133	41	-	10	10	6555	2302	1650	1232	147	229	111	155	58
PUZ-SWM100YAA	EHST20D-****D	✔	L	A+++	A+	10	4600	898	177	134	41	-	10	10	6601	2411	1044	841	146	219	109	139	58
	ERST20D-****D	✔	L	A+++	A+	10	4519	898	180	134	41	-	10	10	6565	2314	1044	841	147	228	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	10	4600	1404	177	133	41	-	10	10	6601	2411	1650	1232	146	219	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	10	4519	1404	180	133	41	-	10	10	6565	2314	1650	1232	147	228	111	155	58
PUZ-SWM120VAA	EHST20D-****D	✔	L	A+++	A+	12	5566	898	177	134	41	-	12	12	8290	2882	1044	841	141	221	109	139	58
	ERST20D-****D	✔	L	A+++	A+	12	5511	898	178	134	41	-	12	12	8257	2816	1044	841	141	227	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	12	5566	1404	177	133	41	-	12	12	8290	2882	1650	1232	141	221	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	12	5511	1404	178	133	41	-	12	12	8257	2816	1650	1232	141	227	111	155	58
PUZ-SWM120YAA	EHST20D-****D	✔	L	A+++	A+	12	5600	898	176	134	41	-	12	12	8316	2922	1044	841	140	218	109	139	58
	ERST20D-****D	✔	L	A+++	A+	12	5520	898	178	134	41	-	12	12	8267	2825	1044	841	141	226	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	12	5600	1404	176	133	41	-	12	12	8316	2922	1650	1232	140	218	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	12	5520	1404	178	133	41	-	12	12	8267	2825	1650	1232	141	226	111	155	58
PUZ-SWM140VAA	EHST20D-****D	✔	L	A+++	A+	14	6483	965	175	123	41	-	14	14	10250	3367	1070	888	132	219	105	130	58
	ERST20D-****D	✔	L	A+++	A+	14	6428	965	177	123	41	-	14	14	10217	3301	1070	888	132	224	105	130	58
	EHST30D-****D	✔	XL	A+++	A	14	6483	1610	175	114	41	-	14	14	10250	3367	1755	1434	132	219	104	130	58
	ERST30D-****D	✔	XL	A+++	A	14	6428	1610	177	114	41	-	14	14	10217	3301	1755	1434	132	224	104	130	58
PUZ-SWM140YAA	EHST20D-****D	✔	L	A+++	A+	14	6517	965	175	123	41	-	14	14	10275	3407	1070	888	131	217	105	130	58
	ERST20D-****D	✔	L	A+++	A+	14	6437	965	177	123	41	-	14	14	10226	3310	1070	888	132	223	105	130	58
	EHST30D-****D	✔	XL	A+++	A	14	6517	1610	175	114	41	-	14	14	10275	3407	1755	1434	131	217	104	130	58
	ERST30D-****D	✔	XL	A+++	A	14	6437	1610	177	114	41	-	14	14	10226	3310	1755	1434	132	223	104	130	58
PUZ-SHWM60VAA	EHST17D-****D	✔	L	A+++	A+	6	2655	880	184	134	41	-	6	6	4202	1437	1060	846	138	220	105	135	54
	ERST17D-****D	✔	L	A+++	A+	6	2600	880	188	134	41	-	6	6	4168	1371	1060	846	139	231	105	135	54
	EHST20D-****D	✔	L	A+++	A+	6	2655	898	184	134	41	-	6	6	4202	1437	1044	841	138	220	109	139	54
	ERST20D-****D	✔	L	A+++	A+	6	2600	898	188	134	41	-	6	6	4168	1371	1044	841	139	231	109	139	54
	EHST30D-****D	✔	XL	A+++	A+	6	2655	1404	184	133	41	-	6	6	4202	1437	1650	1232	138	220	111	155	54
	ERST30D-****D	✔	XL	A+++	A+	6	2600	1404	188	133	41	-	6	6	4168	1371	1650	1232	139	231	111	155	54
PUZ-SHWM80VAA	EHST17D-****D	✔	L	A+++	A+	8	3530	880	184	134	41	-	8	8	5299	1874	1060	846	146	225	105	135	54
	ERST17D-****D	✔	L	A+++	A+	8	3475	880	187	134	41	-	8	8	5266	1808	1060	846	147	233	105	135	54
	EHST20D-****D	✔	L	A+++	A+	8	3530	898	184	134	41	-	8	8	5299	1874	1044	841	146	225	109	139	54
	ERST20D-****D	✔	L	A+++	A+	8	3475	898	187	134	41	-	8	8	5266	1808	1044	841	147	233	109	139	54
	EHST30D-****D	✔	XL	A+++	A+	8	3530	1404	184	133	41	-	8	8	5299	1874	1650	1232	146	225	111	155	54
	ERST30D-****D	✔	XL	A+++	A+	8	3475	1404	187	133	41	-	8	8	5266	1808	1650	1232	147	233	111	155	54
PUZ-SHWM80YAA	EHST17D-****D	✔	L	A+++	A+	8	3568	880	182	134	41	-	8	8	5332	1874	1060	846	145	225	105	135	54
	ERST17D-****D	✔	L	A+++	A+	8	3487	880	187	134	41	-	8	8	5284	1808	1060	846	146	233	105	135	54
	EHST20D-****D	✔	L	A+++	A+	8	3568	898	182	134	41	-	8	8	5332	1874	1044	841	145	225	109	139	54
	ERST20D-****D	✔	L	A+++	A+	8	3487	898	187	134	41	-	8	8	5284	1808	1044	841	146	233	109	139	54
	EHST30D-****D	✔	XL	A+++	A+	8	3568	1404	182	133	41	-	8	8	5332	1874	1650	1232	145	225	111	155	54
	ERST30D-****D	✔	XL	A+++	A+	8	3487	1404	187	133	41	-	8	8	5284	1808	1650	1232	146	233	111	155	54
PUZ-SHWM100VAA	EHST20D-****D	✔	L	A+++	A+	10	4444	898	183	134	41	-	10	10	6480	2233	1044	841	149	236	109	139	58
	ERST20D-****D	✔	L	A+++	A+	10	4389	898	185	134	41	-	10	10	6447	2167	1044	841	150	244	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	10	4444	1404	183	133	41	-	10	10	6480	2233	1650	1232	149	236	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	10	4389	1404	185	133	41	-	10	10	6447	2167	1650	1232	150	244	111	155	58
PUZ-SHWM100YAA	EHST20D-****D	✔	L	A+++	A+	10	4480	898	181	134	41	-	10	10	6508	2276	1044	841	149	232	109	139	58
	ERST20D-****D	✔	L	A+++	A+	10	4399	898	185	134	41	-	10	10	6459	2179	1044	841	150	242	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	10	4480	1404	181	133	41	-	10	10	6508	2276	1650	1232	149	232	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	10	4399	1404	185	133	41	-	10	10	6459	2179	1650	1232	150	242	111	155	58
PUZ-SHWM120VAA	EHST20D-****D	✔	L	A+++	A+	12	5481	898	179	134	41	-	12	12	7843	2753	1044	841	149	232	109	139	58
	ERST20D-****D	✔	L	A+++	A+	12	5426	898	181	134	41	-	12	12	7810	2687	1044	841	150	238	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	12	5481	1404	179	133	41	-	12	12	7843	2753	1650	1232	149	232	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	12	5426	1404	181	133	41	-	12	12	7810	2687	1650	1232	150	238	111	155	58
PUZ-SHWM120YAA	EHST20D-****D	✔	L	A+++	A+	12	5516	898	178	134	41	-	12	12	7868	2793	1044	841	149	228	109	139	58
	ERST20D-****D	✔	L	A+++	A+	12	5435	898	181	134	41	-	12	12	7819	2696	1044	841	150	237	109	139	58
	EHST30D-****D	✔	XL	A+++	A+	12	5516	1404	178	133	41	-	12	12	7868	2793	1650	1232	149	228	111	155	58
	ERST30D-****D	✔	XL	A+++	A+	12	5435	1404	181	133	41	-	12	12	7819	2696	1650	1232	150	237	111	155	58
PUZ-SHWM140VAA	EHST20D-****D	✔	L	A+++	A+	14	6227	965	183	123	41	-	14	14	8841	3279	1070	888	153	225	105	130	58
	ERST20D-****D	✔	L	A+++	A+	14	6172	965	184	123	41	-	14	14	8807	3212	1070	888	154	230	105	130	58
	EHST30D-****D	✔	XL	A+++	A	14	6227	1610	183	114	41	-	14	14	8841	3279	1755	1434	153	225	104	130	58
	ERST30D-****D	✔	XL	A+++	A	14	6172	1610	184	114	41	-	14	14	8807	3212	1755	1434	154	230	104	130	58
PUZ-SHWM140YAA	EHST20D-****D	✔	L	A+++	A+	14	6262	965	182	123	41	-	14	14	8865	3319	1070	888	153	222	105	130	58
	ERST20D-****D	✔	L	A+++	A+	14	6181	965	184	123	41	-	14	14	8816	3222	1070	888	154	229	105	130	58
	EHST30D-****D	✔	XL	A+++	A	14	6262	1610	182	114	41	-	14	14	8865	3319	1755	1434	153	222	104	130	58
	ERST30D-****D	✔	XL	A+++	A	14	6181	1610	184	114	41	-	14	14	8816	3222	1755	1434	154	229	104	130	58

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	English	Deutsch	Français	Italiano	Español
	Nederlands	Svenska	Dansk	Português	Ελληνικά
	suomi	Čeština	Български	Polski	-
1	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
	buitenunit	Utomhusenhet	Udendørs enhed	unidade exterior	Εξωτερική μονάδα
	Ulkoyksikkö	Venkovní jednotka	Външно тяло	jednostka zewnętrzna	-
2	Indoor unit	Innengerät	unité intérieure	unità interna	unidad interior
	binnenunit	Inomhusenhet	Indendørs enhed	unidade interior	Εσωτερική μονάδα
	Sisäyksikkö	Vnitřní jednotka	Вътрешно тяло	jednostka wewnętrzna	-
3	Medium-temperature application	Mitteltemperaturanwendung	l'application à moyenne température	le applicazioni a media temperatura	la aplicación de media temperatura
	middentemperatuur-toepassing	mediumtemperaturapplikation	middeltemperaturanvendelsen	a aplicação a média temperatura	η εφαρμογή σε μέση θερμοκρασία
	keskilämpötilan sovellus	středněteplotní aplikace	среднотемпературното приложение	zastosowania w średnich temperaturach	-
4	Low-temperature application	Niedertemperaturanwendung	l'application à basse température	le applicazioni a bassa temperatura	la aplicación de baja temperatura
	lagetemperatuur-toepassing	lågtemperaturapplikation	lavtemperaturanvendelsen	a aplicação a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
	matalanlämpötilan sovellus	nízkoteplotní aplikace	нискотемпературни приложения	zastosowania w niskich temperaturach	-
5	Declared load profile	Angegebenes Lastprofil	Profil de soutirage déclaré	Profilo di carico dichiarato	Perfil de carga declarado
	Opgegeven capaciteitsprofiel	Deklarerad belastningsprofil	Angivet forbrugsprofil	Perfil de carga declarado	Δηλωμένο προφίλ φορτίου
	Ilmoitettu kuormitusprofiili	Deklarovaný zátěžový profil	Обявен товаров профил	Deklarowany profil obciążeń	-
6	Seasonal space heating energy efficiency class	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	la classe di efficienza energetica stagionale del riscaldamento d'ambiente	la clase de eficiencia energética estacional de calefacción
	de seizoensgebonden energie-efficiëntieklasse voor ruimteverwarming	säsongsrelaterade energieffektivitetsklass vid rumsuppvärmning	klassen for årsvirkningsgrad ved rumopvarmning	A classe de eficiência energética do aquecimento ambiente sazonal	η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου
	tilalämmityksen kausittainen energiatehokkuusluokka	třída sezonní energetické účinnosti vytápění	класът на сезонната отоплителна енергийна ефективност	klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń	-
7	Water heating energy efficiency class	die Klasse für die Warmwasserbereitungs-Energieeffizienz	la classe d'efficacité énergétique, pour le chauffage de l'eau	la classe di efficienza energetica del riscaldamento dell'acqua	la clase de eficiencia energética del caldeo de agua
	de energie-efficiëntieklasse voor waterverwarming	energieffektivitetsklass vid vattenuppvärmning	klassen for årsvirkningsgrad ved vandopvarmning	A classe de eficiência energética do aquecimento de água	η τάξη ενεργειακής απόδοσης θέρμανσης νερού
	vedenlämmityksen energiatehokkuusluokka	třída energetické účinnosti ohřevu vody	класът на енергийната ефективност при подгряване на вода	klasa efektywności energetycznej podgrzewania wody	-
8	Rated heat output under average climate conditions	die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale(in condizioni climatiche medie)	la potencia calorífica nominal(en condiciones climáticas medias)
	de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden)	Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden)	den nominelle nytteeffekt(under gennemsnitlige klimaforhold)	A potência calorífica nominal(em condições climáticas médias)	η ονομαστική θερμική ισχύς(υπό μέσες κλιματικές συνθήκες)
	nimellislämpöteho(keskimääräisissä ilmasto-olosuhteissa)	jmenovitý tepelný výkon(za průměrných klimatických podmínek)	номиналната топлинна мощност(при средни климатични условия)	znamionowa moc cieplna(w warunkach klimatu umiarkowanego)	-
9	For space heating, annual energy consumption under average climate conditions	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie)	para calentar espacios, el consumo anual de energía(en condiciones climáticas medias)
	voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	För rumsuppvärmning, årlig energiförbrukning(vid genomsnittliga klimatförhållanden)	for rumopvarmning det årlige energiforbrug(under gennemsnitlige klimaforhold)	Para o aquecimento ambiente, o consumo anual de energia(em condições climáticas médias)	για τη θέρμανση χώρων, η ετήσια κατανάλωση ενέργειας(υπό μέσες κλιματικές συνθήκες)
	tilalämmityksestä vuotuinen energiankulutus(keskimääräisissä ilmasto-olosuhteissa)	pro vytápění – roční spotřeba energie za průměrných klimatických podmínek	за отопление, годишното потребление на енергия(при средни климатични условия)	w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii(w warunkach klimatu umiarkowanego)	-
10	For water heating, annual electricity consumption under average climate conditions	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions climatiques moyennes)	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)
	voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)	För vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klimatförhållanden)	for vandopvarmning det årlige elforbrug(under gennemsnitlige klimaforhold)	para o aquecimento de água, o consumo anual de eletricidade(em condições climáticas médias)	για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές συνθήκες)
	vedenlämmityksestä vuotuinen sähkönkulutus(keskimääräisissä ilmasto-olosuhteissa)	pro ohřev vody – roční spotřeba elektrické energie za průměrných klimatických podmínek	за подгряване на вода, годишното потребление(при средни климатични условия)	w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej(w warunkach klimatu umiarkowanego)	-
11	Seasonal space heating energy efficiency under average climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux(dans les conditions climatiques moyennes)	l'efficienza energetica stagionale di riscaldamento d'ambiente(in condizioni climatiche medie)	la eficiencia energética estacional de calefacción(en condiciones climáticas medias)
	de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	Säsongsmedelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållanden)	årsvirkningsgraden ved rumopvarmning(under gennemsnitlige klimaforhold)	A eficiência energética do aquecimento ambiente sazonal(em condições climáticas médias)	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες)
	tilalämmityksen kausittainen energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa)	sezonní energetická účinnost vytápění za průměrných klimatických podmínek	сезонната енергийна ефективност при отопление(при средни климатични условия)	sezonowa efektywność energetyczna ogrzewania pomieszczeń(w warunkach klimatu umiarkowanego)	-
12	Water heating energy efficiency under average climate conditions	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes)	l'efficienza energetica di riscaldamento dell'acqua(in condizioni climatiche medie)	la eficiencia energética del caldeo de agua(en condiciones climáticas medias)
	de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden)	Energieffektivitet vid vattenuppvärmning(vid genomsnittliga klimatförhållanden)	energieffektiviteten ved vandopvarmning(under gennemsnitlige klimaforhold)	a eficiência energética do aquecimento de água(em condições climáticas médias)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες)
	vedenlämmityksen energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa)	energetická účinnost ohřevu vody za průměrných klimatických podmínek	енергийната ефективност при подгряване на вода(при средни климатични условия)	efektywność energetyczna podgrzewania wody(w warunkach klimatu umiarkowanego)	-
13	Sound power level L_{WA} indoor	der Schallleistungspegel 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
	het geluidsvermogensniveau L_{WA} binnen	Ljudeffektnivå L_{WA} i inomhus	lydeffektniveauet L_{WA} i inde	O nível de potência sonora L_{WA} no interior	η στάθμη ηχητικής ισχύος L_{WA} εσωτερικού χώρου
	äänitehotaso L_{WA} sisällä	hladina akustického výkonu L_{WA} ve vnitřním prostoru	нивото на звуковата мощност L_{WA} на закрито	poziom mocy akustycznej L_{WA} w pomieszczeniu	-
14	Work only during off-peak hours	dass ein ausschließlicher Betrieb des Kombiheizgerätes zu Schwachlastzeiten	fonctionner qu'en heures creuses	funzione soltanto durante le ore morte	funcionar solamente durante las horas de baja demanda
	werken uitsluitend in de daluren	drivas uteslutande under perioder med låg belastning	fungere uden for spidsbelastningsperioder	de funcionar unicamente fora das horas de pico	λειτουργία μόνο εκτός των ωρών αιχμής
	toimimaan ainoastaan kulutushuippujen ulkopuolella	provozu pouze mimo špičku	работи само в часовете извън върховото натоварване	pracować jedynie w godzinach poza szczytowym obciążeniem	-
15	Rated heat output under colder climate conditions	die Wärmenennleistung bei kälteren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus froides	la potenza termica nominale, in condizioni climatiche più fredde	la potencia calorífica nominal en condiciones climáticas más frías
	de nominale warmteafgifte, onder koudere klimaatomstandigheden	Nominell avgiven värmeeffekt vid kallare klimatförhållanden	den nominelle nytteeffekt under koldere klimaforhold	A potência calorífica nominal em condições climáticas mais frias	η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες
	nimellislämpöteho, kylmissä ilmasto-olosuhteissa	jmenovitý tepelný výkon za chladnějších klimatických podmínek	номиналната топлинна мощност при по-студени климатични условия	znamionowa moc cieplna w warunkach klimatu chłodnego	-
16	Rated heat output under warmer climate conditions	die Wärmenennleistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus chaudes	la potenza termica nominale, in condizioni climatiche più calde	la potencia calorífica nominal en condiciones climáticas más cálidas
	de nominale warmteafgifte, onder warmere klimaatomstandigheden	Nominell avgiven värmeeffekt vid varmare klimatförhållanden	den nominelle nytteeffekt under varmere klimaforhold	A potência calorífica nominal em condições climáticas mais quentes	η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες
	nimellislämpöteho, lämpimissä ilmasto-olosuhteissa	jmenovitý tepelný výkon za teplejších klimatických podmínek	номиналната топлинна мощност при по-топли климатични условия	znamionowa moc cieplna w warunkach klimatu ciepłego	-
17	For space heating, annual energy consumption under colder climate conditions	für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde	para calentar espacios, el consumo anual de energía en condiciones climáticas más frías
	voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden	För rumsuppvärmning, årlig energiförbrukning under kallare klimatförhållanden	for rumopvarmning det årlige energiforbrug under koldere klimaforhold	Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais frias	για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	tilalämmityksestä vuotuinen energiankulutus kylmissä ilmasto-olosuhteissa	pro vytápění – roční spotřeba energie za chladnější klimatických podmínek	за отопление, годишното потребление на енергия при по-студени климатични условия	w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu chłodnego	-
18	For space heating, annual energy consumption under warmer climate conditions	für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più calde	para calentar espacios, el consumo anual de energía en condiciones climáticas más cálidas
	voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden	För rumsuppvärmning, årlig energiförbrukning under varmare klimatförhållanden	for rumopvarmning det årlige energiforbrug under varmere klimaforhold	Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais quentes	για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό θερμότερες κλιματικές συνθήκες
	tilalämmityksestä vuotuinen energiankulutus lämpimissä ilmasto-olosuhteissa	pro vytápění – roční spotřeba energie za teplejších klimatických podmínek	за отопление, годишното потребление на енергия при по-топли климатични условия	w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu ciepłego	-
19	For water heating, annual energy consumption under colder climate conditions	für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus froides	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías
	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	För vattenuppvärmning, årlig elförbrukning under kallare klimatförhållanden	for vandopvarmning det årlige elforbrug under koldere klimaforhold	para o aquecimento de água, o consumo anual de eletricidade em condições climáticas mais frias	για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
	vedenlämmityksestä vuotuinen sähkönkulutus kylmissä ilmasto-olosuhteissa	pro ohřev vody – roční spotřeba elektrické energie za chladnějších klimatických podmínek	за подгряване на вода, годишното потребление на електроенергия при по-студени климатични условия	w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach klimatu chłodnego	-
20	For water heating, annual energy consumption under warmer climate conditions	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus chaudes	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più calde	para calentar agua, el consumo anual de electricidad en condiciones climáticas más cálidas
	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	För vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden	for vandopvarmning det årlige elforbrug under varmere klimaforhold	para o aquecimento de água, o consumo anual de eletricidade em condições climáticas mais quentes	για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές συνθήκες
	vedenlämmityksestä vuotuinen sähkönkulutus lämpimissä ilmasto-olosuhteissa	pro ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmínek	за подгряване на вода, годишното потребление на електроенергия при по-топли климатични условия	w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach klimatu ciepłego	-
21	Seasonal space heating energy efficiency under colder climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più fredde	la eficiencia energética estacional de calefacción en condiciones climáticas más frías
	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Säsongsmedelverkningsgrad för rumsuppvärmning under kallare klimatförhållanden	årsvirkningsgraden ved rumopvarmning under koldere klimaforhold	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais frias	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό ψυχρότερες κλιματικές συνθήκες
	tilalämmityksen kausittainen energiatehokkuus kylmissä ilmasto-olosuhteissa	sezonní energetická účinnost vytápění za chladnějších klimatických podmínek	сезонната енергийна ефективност при отопление при по-студени климатични условия	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chłodnego	-
22	Seasonal space heating energy efficiency under warmer climate conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più calde	la eficiencia energética estacional de calefacción en condiciones climáticas más cálidas
	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Säsongsmedelverkningsgrad för rumsuppvärmning under varmare klimatförhållanden	årsvirkningsgraden ved rumopvarmning under varmere klimaforhold	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais quentes	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθήκες
	tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa	sezonní energetická účinnost vytápění za teplejších klimatických podmínek	сезонната енергийна ефективност при отопление при по-топли климатични условия	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu ciepłego	-
23	Water heating energy efficiency under colder climate conditions	die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde	la eficiencia energética de caldeo de agua en condiciones climáticas más frías
	de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	Energieffektivitet vid vattenuppvärmning under kallare klimatförhållanden	energieffektiviteten ved vandopvarmning under koldere klimaforhold	a eficiência energética do aquecimento de água em condições climáticas mais frias	η ενεργειακή απόδοση της θέρμανσης νερού υπό ψυχρότερες κλιματικές συνθήκες
	vedenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa	energetická účinnost ohřevu vody za chladnějších klimatických podmínek	енергийната ефективност при подгряване на вода при по-студени климатични условия	efektywność energetyczna podgrzewania wody w warunkach klimatu chłodnego	-
24	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde	la eficiencia energética de caldeo de agua en condiciones climáticas más cálidas
	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energieffektivitet vid vattenuppvärmning under varmare klimatförhållanden	energieffektiviteten ved vandopvarmning under varmere klimaforhold	a eficiência energética do aquecimento de água em condições climáticas mais quentes	η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες
	vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa	energetická účinnost ohřevu vody za teplejších klimatických podmínek	енергийната ефективност при подгряване на вода при по-топли климатични условия	efektywność energetyczna podgrzewania wody w warunkach klimatu ciepłego	-
25	Sound power level L_{WA} outdoor	der Schallleistungspegel 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
	het geluidsvermogensniveau L_{WA} buiten	Ljudeffektnivån L_{WA} i utomhus	lydeffektniveau L_{WA} i ude	O nível de potência sonora L_{WA} no exterior	η στάθμη ηχητικής ισχύος L_{WA} εξωτερικού χώρου
	äänitehotaso L_{WA} ulkona	hladina akustického výkonu L_{WA} ve venkovním prostoru	нивото на звуковата мощност L_{WA} на открито	poziom mocy akustycznej L_{WA} na zewnątrz	-

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	10.7	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 2 ° C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	5.0	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 ° C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	-10	° C
Reference design conditions for space heating	Tdesignh	-10	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	7204	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.080	kWh
Annual electricity consumption	AEC	898	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	136	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.13	-
Tj = + 2 ° C	COPd	3.36	-
Tj = + 7 ° C	COPd	4.75	-
Tj = +12 ° C	COPd	6.32	-
Tj = bivalent temperature	COPd	1.78	-
Tj = operation limit temperature (***)	COPd	1.78	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	134	%

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:

斉藤健一

Kenichi SAITO
Manager, Quality Assuarance 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-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	10.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.0	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	-10	° C
Reference design conditions for space heating	Tdesignh	-10	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	5516	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.080	kWh
Annual electricity consumption	AEC	898	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	178	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.85	-
Tj = + 2 ° C	COPd	4.53	-
Tj = + 7 ° C	COPd	6.04	-
Tj = +12 ° C	COPd	7.02	-
Tj = bivalent temperature	COPd	2.43	-
Tj = operation limit temperature (***)	COPd	2.43	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	134	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	7.3	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 ° C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.2	kW
Tj = operation limit temperature (***)	Pdh	8.2	kW
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9.9	kW
Bivalent temperature	Tbiv	-16	° C
Reference design conditions for space heating	Tdesignh	-22	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	9927	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.750	kWh
Annual electricity consumption	AEC	1044	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	117	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.70	-
Tj = + 2 ° C	COPd	3.50	-
Tj = + 7 ° C	COPd	4.78	-
Tj = +12 ° C	COPd	7.00	-
Tj = bivalent temperature	COPd	1.55	-
Tj = operation limit temperature (***)	COPd	1.54	-
Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.55	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	3.9	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	109	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	7.3	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	4.5	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 ° C	Pdh	3.9	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	10.2	kW
Tj = operation limit temperature (***)	Pdh	8.7	kW
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9.9	kW
Bivalent temperature	Tbiv	-16	° C
Reference design conditions for space heating	Tdesignh	-22	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	7868	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.750	kWh
Annual electricity consumption	AEC	1044	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	149	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	3.67	-
Tj = + 2 ° C	COPd	4.30	-
Tj = + 7 ° C	COPd	5.38	-
Tj = +12 ° C	COPd	8.02	-
Tj = bivalent temperature	COPd	2.08	-
Tj = operation limit temperature (***)	COPd	1.56	-
Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.04	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	3.4	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	109	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 ° C	Pdh	12.1	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 7 ° C	Pdh	7.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 ° C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	2	° C
Reference design conditions for space heating	Tdesignh	2	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	3995	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	3.820	kWh
Annual electricity consumption	AEC	841	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	159	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	-	-
Tj = + 2 ° C	COPd	2.05	-
Tj = + 7 ° C	COPd	3.42	-
Tj = +12 ° C	COPd	5.65	-
Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	COPd	2.05	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	139	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 ° C	Pdh	12.1	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	7.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	2	° C
Reference design conditions for space heating	Tdesignh	2	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	2793	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	3.820	kWh
Annual electricity consumption	AEC	841	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	228	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	-	-
Tj = + 2 ° C	COPd	3.30	-
Tj = + 7 ° C	COPd	5.32	-
Tj = +12 ° C	COPd	7.46	-
Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	COPd	3.30	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	139	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	10.7	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 2 ° C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	5.0	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 ° C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	-10	° C
Reference design conditions for space heating	Tdesignh	-10	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	7123	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.080	kWh
Annual electricity consumption	AEC	898	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	137	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.13	-
Tj = + 2 ° C	COPd	3.36	-
Tj = + 7 ° C	COPd	4.75	-
Tj = +12 ° C	COPd	6.32	-
Tj = bivalent temperature	COPd	1.78	-
Tj = operation limit temperature (***)	COPd	1.78	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	134	%

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	10.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.0	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	-10	° C
Reference design conditions for space heating	Tdesignh	-10	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	5435	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.080	kWh
Annual electricity consumption	AEC	898	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	181	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.85	-
Tj = + 2 ° C	COPd	4.53	-
Tj = + 7 ° C	COPd	6.04	-
Tj = +12 ° C	COPd	7.02	-
Tj = bivalent temperature	COPd	2.43	-
Tj = operation limit temperature (***)	COPd	2.43	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	134	%

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 Assuarance 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-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	7.3	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 ° C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.2	kW
Tj = operation limit temperature (***)	Pdh	8.2	kW
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9.9	kW
Bivalent temperature	Tbiv	-16	° C
Reference design conditions for space heating	Tdesignh	-22	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	9878	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.750	kWh
Annual electricity consumption	AEC	1044	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	118	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.70	-
Tj = + 2 ° C	COPd	3.50	-
Tj = + 7 ° C	COPd	4.78	-
Tj = +12 ° C	COPd	7.00	-
Tj = bivalent temperature	COPd	1.55	-
Tj = operation limit temperature (***)	COPd	1.54	-
Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.55	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	3.9	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	109	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	7.3	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	4.5	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 ° C	Pdh	3.9	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	10.2	kW
Tj = operation limit temperature (***)	Pdh	8.7	kW
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9.9	kW
Bivalent temperature	Tbiv	-16	° C
Reference design conditions for space heating	Tdesignh	-22	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	7819	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.750	kWh
Annual electricity consumption	AEC	1044	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	150	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	3.67	-
Tj = + 2 ° C	COPd	4.30	-
Tj = + 7 ° C	COPd	5.38	-
Tj = +12 ° C	COPd	8.02	-
Tj = bivalent temperature	COPd	2.08	-
Tj = operation limit temperature (***)	COPd	1.56	-
Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.04	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	3.4	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	109	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 ° C	Pdh	12.1	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 7 ° C	Pdh	7.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 ° C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	2	° C
Reference design conditions for space heating	Tdesignh	2	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	3898	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	3.820	kWh
Annual electricity consumption	AEC	841	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	163	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	-	-
Tj = + 2 ° C	COPd	2.05	-
Tj = + 7 ° C	COPd	3.42	-
Tj = +12 ° C	COPd	5.65	-
Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	COPd	2.05	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	139	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 ° C	Pdh	12.1	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	7.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	2	° C
Reference design conditions for space heating	Tdesignh	2	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	2696	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	3.820	kWh
Annual electricity consumption	AEC	841	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	237	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	-	-
Tj = + 2 ° C	COPd	3.30	-
Tj = + 7 ° C	COPd	5.32	-
Tj = +12 ° C	COPd	7.46	-
Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	COPd	3.30	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	139	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	10.7	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 2 ° C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	5.0	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 ° C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	-10	° C
Reference design conditions for space heating	Tdesignh	-10	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	7204	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.080	kWh
Annual electricity consumption	AEC	898	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	136	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.13	-
Tj = + 2 ° C	COPd	3.36	-
Tj = + 7 ° C	COPd	4.75	-
Tj = +12 ° C	COPd	6.32	-
Tj = bivalent temperature	COPd	1.78	-
Tj = operation limit temperature (***)	COPd	1.78	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	134	%

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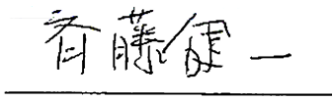

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	10.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.0	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	-10	° C
Reference design conditions for space heating	Tdesignh	-10	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	5516	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.080	kWh
Annual electricity consumption	AEC	898	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	178	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.85	-
Tj = + 2 ° C	COPd	4.53	-
Tj = + 7 ° C	COPd	6.04	-
Tj = +12 ° C	COPd	7.02	-
Tj = bivalent temperature	COPd	2.43	-
Tj = operation limit temperature (***)	COPd	2.43	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	134	%

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	7.3	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 ° C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.2	kW
Tj = operation limit temperature (***)	Pdh	8.2	kW
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9.9	kW
Bivalent temperature	Tbiv	-16	° C
Reference design conditions for space heating	Tdesignh	-22	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	9927	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.750	kWh
Annual electricity consumption	AEC	1044	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	117	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	2.70	-
Tj = + 2 ° C	COPd	3.50	-
Tj = + 7 ° C	COPd	4.78	-
Tj = +12 ° C	COPd	7.00	-
Tj = bivalent temperature	COPd	1.55	-
Tj = operation limit temperature (***)	COPd	1.54	-
Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.55	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	3.9	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	109	%

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 Assuarance Department
TURKEY

The signature is signed in the average climate / medium-temperature section.

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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.

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Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	7.3	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 ° C	Pdh	4.5	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 ° C	Pdh	3.9	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 ° C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	10.2	kW
Tj = operation limit temperature (***)	Pdh	8.7	kW
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9.9	kW
Bivalent temperature	Tbiv	-16	° C
Reference design conditions for space heating	Tdesignh	-22	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	7868	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	4.750	kWh
Annual electricity consumption	AEC	1044	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	149	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	3.67	-
Tj = + 2 ° C	COPd	4.30	-
Tj = + 7 ° C	COPd	5.38	-
Tj = +12 ° C	COPd	8.02	-
Tj = bivalent temperature	COPd	2.08	-
Tj = operation limit temperature (***)	COPd	1.56	-
Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.04	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	3.4	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	109	%

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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.

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Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 ° C	Pdh	12.1	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 7 ° C	Pdh	7.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 ° C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	2	° C
Reference design conditions for space heating	Tdesignh	2	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	3995	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	3.820	kWh
Annual electricity consumption	AEC	841	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	159	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	-	-
Tj = + 2 ° C	COPd	2.05	-
Tj = + 7 ° C	COPd	3.42	-
Tj = +12 ° C	COPd	5.65	-
Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	COPd	2.05	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	139	%

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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		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T j			
Tj = - 7 ° C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 ° C	Pdh	12.1	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 ° C	Pdh	7.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 ° C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operation limit temperature (***)	Pdh	12.1	kW
Bivalent temperature	Tbiv	2	° C
Reference design conditions for space heating	Tdesignh	2	° C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA
Annual energy consumption	Q_{HE}	2793	kWh
For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Qelec	3.820	kWh
Annual electricity consumption	AEC	841	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η s	228	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	COPd	-	-
Tj = + 2 ° C	COPd	3.30	-
Tj = + 7 ° C	COPd	5.32	-
Tj = +12 ° C	COPd	7.46	-
Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	COPd	3.30	-
Operation limit temperature	TOL	-30	° C
Heating water operating limit temperature	WTOL	60	° C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	η wh	139	%

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