

DG79V341H11

MITSUBISH

Mtsubishi Electric Erp Directive Related Product Information: erp.mitsubishielectric.eu/erp
PRODUCT FICHE 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							-	emperat	ure appl	-											· · · · · · · · · · · · · · · · · · ·	e applica					
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	2
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency dass	Rated heat output under average climate conditions	Season al space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L <sub>wi</sub> indoor	Rated heat output under colder dimate conditions	Rated heat output under warmer dimate conditions	Season al space heating energy efficiency under colder climate conditions	Season al 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 dimate conditions	Sound power level L <sub>W</sub> outdoor	Low-temperature application	Season al 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 <sub>wi</sub> indoor	Rated heat output under colder dimate conditions	Rated heat output under warmer dimate 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 dimate conditions	For space heating, annual energy consumption under warmer climate conditions	Sound rowar laval 1 Autobox
				kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB			kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	d
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	5
	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	5
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	5
	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	5
PUZ-SWM80YAA	EHSD-****D	~	A++	8	128	5053	41	8	8	111	160	6923	2629	54	~	A+++	8	179	3636	41	8	8	141	214	5493	1973	5
	ERSD-****D	~	A++	8	130	4972	41	8	8	112	166	6875	2532	54	~	A+++	8	183	3555	41	8	8	142	225	5444	1876	5
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	5
de offinition at	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	5
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	5
de offinition at	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	5
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	Ę
de offiniteotrat	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	Ę
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	5
	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	5
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	5
OE OTTAINION AT	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	5
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	5
	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	5
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	5
OE ON MIDOWAY	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	5
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	5
OE ON MINOUTING	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	5
PUZ-SHWM80YAA	EHSD-****D	~	A++	8	131	4941	41	8	8	114	164	6737	2566	54	~	A+++	8	182	3568	41	8	8	145	220	5332	1920	5
02-311111001744	ERSD-****D	~	A++	8	133	4860	41	8	8	115	170	6689	2469	54	~	A+++	8	187	3487	41	8	8	146	232	5284	1823	5
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	5
02-Ontrinitio01744	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	Ę
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	Ę
SE SHITHINGSTAR	ERSD-****D	1	A++	10	137	5891	41	10	10	117	167	8250	3149	58	~	A+++	10	185	4399	41	10	10	150	242	6459	2179	Ę
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	Ę
SE SHITHIESTAR	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	Ę
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	Ę
SE-SHWIMIZOTAA	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	Ę
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	4
SE-ONWINGWAA	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	Ę
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	Ę
OZ-SHWM140TAA	ERSD-****D	1	A++	14	142	7974	41	14	14	116	158	11625	4659	58	1	A+++	14	184	6181	41	14	14	154	229	8816	3222	ŧ

2.COMBINATION HEATER	R							For medium-ter	nperature a	pplication														For le	ow-temper	rature applic	ation						
1	2	3 5	6	7	8 9	10	11 12	13 14	15	16 1	7 18	19	20	21 22	23	24	25	4	5	6 7	8	9	10 11	12 13	14	15	16	17 18	3 19	20	21 22	23	24 25
		ation	Alba	lou	under	ou	nate moy	ours	der	mer	suo	su	tions	ate argy	And and	ions tions	ğ	-	-	(Rus		under	on litions ergy nate	itions or	sino	der	le l	suo	ions on the second	tions	ate ergy tate	ucy ons	bor ions
nit	it	applic	ing en	efficie	der intions intions intions	sumpti	ing en age clir efficie	v, indo	der col	der wa	mption	mption	condition	ing en	efficie conditi	efficie	KY Outo	lication		efficie	der lifions	nption	sumpti e cond ing en	e ond e cond w indo	yeak h	der col	Oel wa	nption phon	mption	mption condit	n dime ing en	efficie	efficie condition
por r	or ri	ature	e heat	mergy	put un o cond ng, consur	N cont	e heati r avera	wel L <sub>u</sub>	un nu	ns ns ng,	mate o ing. consur	ng. ponsur mate o	ng. consur firmate	e heati	mergy mate o	anergy	wel Ly	re app	of the state	anergy	put nu	ng. consur	ng, N cons dimate e heati r avera	dimate vel L <sub>v</sub>	g off-p	us un	n e d	mate of mate o	firmate ng, consur mate c	ng, consur timate	e heati	mate of	imate fimate wel L <sub>u</sub>
Oute	Inde	empel load p	lspace	ating e	at out; dimate e heat nergy o	r heati ectrici erage	under s ating e	y durin	at out	at out onditio	e he at	r heati nergy ( der di	mergy (	s space Ispace	s ating e der di	ating e	ower le	Seratur	load p	dass ating e	at out	e he at hergy	ectricit ectricit erage I space under	ating e erage	v durin	at out	at out onditio	der di der di e heat	rheati hergy der di	r heati nergy i rmer c	s Ispao	ating e	ating e rmer c
		dium.t	ason a ciency	ss	ted he arage ( r space nual er	r water nual el	asonal ciency idition iter he	nd bu	ted he nate o	ted he nate o	der col r spaci nual ei der wa	nual er der col	nual er der vra	ciency dition asona ciency	ndition tter he der col	tter he der wa	a pun	w-temp	ched	ciency tier he	ted he	r spac nual er	r water nual el der a w ason a ciency dition	ter he der av	ark only	nate o	nate of rspace	der col	der wa r water nual er der col	r water nual er der wa	diency dition asona diency	ter col	ter he der wa
		Me G	Se E	es es	KW KWh	R KWh	%≣8 <sup>№</sup> 1 % %	dB ∛	윤 흥 kW	KM KN Milo R KN	h kWh	kWh	kWh	358 S5 % %	00 % W 00	sy nun	ගි dB	٩	å °	elle k	kW kW	kWh	요료도 8월8 kWh %	∛n S % dB	We	£2-18 ∂ kW	호칭 요 kW	kWh kW	ନ ନିର୍କିତ h kWh	ନିକୁନ୍ଦି କୁ kWh	158 858 % %	wa wa	∛r≣ S % dB
	EHST17D-****D	✓ L		A+	6 3834	880	126 13	4 41 -	6	6 51	81 2093	1060	846	111 15	0 105	5 135	54	1		+++ A+	6	2701	880 181	134 41		6	6 4	4284 151	19 1060	846	135 208	105	135 54
	ERST17D-****D ERST17D-***BD	✓ L ✓ L			6 3779 6 3779	-	128 13 128 13		6	6 51 6 51			846 846	112 15 112 15			54 54	√ √		++++ A+	6	2646 2646	880 184 880 184	134 41 134 41		-		4251 145 4251 145		_	136 218 136 218		135 54 135 54
PUZ-SWM60VAA	EHST20D-****D	✓ L	_		6 3834	-	126 13		6	6 51				111 15			54	v V		++++ A+	6	2701	898 181	134 41				4284 151		_	135 208		139 54
	ERST20D-****D	✓ L			6 3779		128 13		6	6 51				112 15			54	1		+++ A+	6	2646	898 184	134 41				4251 145			136 218		139 54
	EHST30D-****D ERST30D-****D	✓ XL ✓ XL			6 3834 6 3779		126 12 128 12		6	6 51 6 51				111 15 112 15			54 54	√ √		+++ A+ +++ A+	6	2701 2646	1417 181 1417 184	123 41 123 41		-		4284 151 4251 145		-	135 208 136 218		149 54 149 54
	EHST17D-****D	✓ L			8 5016	880	129 13	_	8	8 68	90 2584			111 16	2 105	5 135	54	1		+++ A+	8	3599	880 181	134 41		8	8 5	5460 192	28 1060	846	141 219	105	135 54
	ERST17D-****D	✓ L			8 4961 8 4961		130 13 130 13		8	8 68 8 68			846 846	112 16 112 16			54 54	√ √		+++ A+	8	3543 3543	880 184 880 184	134 41 134 41		-		5427 186 5427 186			142 227 142 227		135 54 135 54
PUZ-SWM80VAA	ERST17D-***BD EHST20D-****D	✓ L	_		8 5016	-	129 13		8	8 68				111 16			54	√ √		++++ A+	8	3599	898 181	134 41 134 41		-		5427 180 5460 192		_	141 219		139 54
	ERST20D-****D	✓ L			8 4961	-	130 13		8	8 68				112 16			54	1		+++ A+	8	3543	898 184	134 41	-			5427 186		_	142 227		139 54
	EHST30D-****D ERST30D-****D	✓ XL ✓ XL			8 5016 8 4961		129 12 130 12		8	8 68 8 68				111 16 112 16			54 54	√ √		+++ A+ +++ A+	8	3599 3543	1417 181 1417 184	123 41 123 41		-		5460 192 5427 186			141 219 142 227		149 54 149 54
	EHST17D-****D	✓ L			8 5053		128 13		8		23 2629			111 16			54	1		+++ A+	8	3636	880 179	134 41				5493 197		_	141 214		135 54
	ERST17D-****D	✓ L			8 4972		130 13		8	8 68				112 16			54	1		+++ A+	8	3555	880 183	134 41	-			5444 187			142 225		135 54
PUZ-SWM80YAA	ERST17D-***BD EHST20D-****D	✓ L ✓ L			8 4972 8 5053		130 13 128 13		8	8 68 8 69			846 841	112 16 111 16			54 54	√ √		+++ A+ +++ A+	8	3555 3636	880 183 898 179	134 41 134 41	-			5444 187 5493 197			142 225 141 214		135 54 139 54
	ERST20D-****D	✓ L	_		8 4972		130 13		8	8 68				112 16			54	1		+++ A+	8	3555	898 183	134 41		-		5444 187			142 225		139 54
	EHST30D-****D ERST30D-****D	✓ XL ✓ XL			8 5053 8 4972		128 12 130 12		8	8 69 8 68			1176 1176	111 16 112 16			54 54	√ √		+++ A+ +++ A+	8	3636 3555	1417 179 1417 183	123 41 123 41	-	-		5493 197 5444 187			141 214 142 225		149 54 149 54
	EHST20D-****D	✓ L	A++	A+	10 6106	898	132 13	4 41 -	10	10 88	13 3362	1044	841	109 15	6 109	139	58	1	L A	+++ A+	10	4564	898 178	134 41	-	10	10 6	6575 236	59 1044	841	147 223	109	139 58
PUZ-SWM100VAA	ERST20D-****D EHST30D-****D	✓ L ✓ XL		A+ A+	10 6051 10 6106		134 13 132 12		10	10 87 10 88			841 1176	109 15 109 15			58 58	√ √		+++ A+	10 10	4509 4564	898 180 1417 178	134 41 123 41	-			6555 230 6575 236			147 229 147 223		139 58 149 58
	ERST30D-****D	✓ XL ✓ XL			10 6106		132 12 134 12		10		13 3362 80 3296			109 15 109 15			58	√ √		+++ A+ +++ A+	10	4564	1417 178 1417 180	123 41 123 41	-			6555 230			147 223 147 229		149 58 149 58
	EHST20D-****D	✓ L	_	A+	10 6141		132 13		10		40 3405			109 15			58	1		+++ A+	10	4600	898 177	134 41				6601 241			146 219		139 58
PUZ-SWM100YAA	ERST20D-****D EHST30D-****D	✓ L ✓ XL		A+ A+	10 6061 10 6141		133 13 132 12		10	10 87 10 88			841 1176	109 15 109 15		_	58 58	√ √		+++ A+ +++ A+	10 10	4519 4600	898 180 1417 177	134 41 123 41	-			6565 231 6601 241			147 228 146 219		139 58 149 58
	ERST30D-****D	✓ XL	A++	A+	10 6061	1417	133 12	3 41 -	10	10 87	91 3308	1759	1176	109 15	9 98	149	58	1	XL A	+++ A+	10	4519	1417 180	123 41	-	10	10 6	6565 231	14 1759	1176	147 228	98	149 58
	EHST20D-****D ERST20D-****D	✓ L ✓ L	_		12 7450 12 7395		131 13 132 13		12	12 100 12 100			841 841	109 15 109 15			58 58	✓ ✓		+++ A+	12 12	5566 5511	898 177 898 178	134 41 134 41				8290 288 8257 281			141 221 141 227		139 58 139 58
PUZ-SWM120VAA	EHST30D-****D	✓ L			12 7395		132 13		12	12 100				109 15			58	v √		++++ A+	12	5566	1417 177	123 41				8290 288			141 221		149 58
	ERST30D-****D	✓ XL			12 7395		132 12		12	12 100				109 15			58	1		+++ A+	12		1417 178	123 41				8257 281			141 227		149 58
	EHST20D-****D ERST20D-****D	✓ L ✓ L		A+ A+	12 7485 12 7404		131 13 132 13		12	12 100 12 100	698         4157           649         4060		841 841	109 15 109 15			58 58	√ √		++++ A+	12 12	5600 5520	898 176 898 178	134 41 134 41				8316 292 8267 282			140 218 141 226		139 58 139 58
PUZ-SWM120YAA	EHST30D-****D	✓ XL	A++	A+	12 7485	i 1417	131 12	3 41 -	12	12 100	698 4157	1759	1176	109 15	3 98	149	58	1		+++ A+	12	5600	1417 176	123 41	-	12	12 8	8316 292	22 1759	1176	140 218	98	149 58
	ERST30D-****D EHST20D-****D	✓ XL ✓ L	_		12 7404 14 8438	_	132 12 134 12		12		649 4060 843 4893		1176 888	109 15 104 15			58 58	√ √		+++ A+	12 14	5520 6483	1417 178 965 175	123 41 123 41				8267 282 0250 336			141 226 132 219		149 58 130 58
PUZ-SWM140VAA	ERST20D-****D	V L			14 8383		135 12		14	14 128		1070	888	105 15	2 105	5 130	58	1		+++ A+	14	6428	965 177	123 41				0217 330			132 224	105	130 58
	EHST30D-****D ERST30D-****D	✓ XL ✓ XL	A++ A++		14 8438 14 8383		134 11 135 11		14	14 128 14 128				104 15 105 15			58 58	√ √		+++ A +++ A	14 14	6483 6428	1610 175 1610 177	114 41 114 41	-			0250 336			132 219 132 224		130 58 130 58
	EHST20D-****D	v ∧L √ L	_		14 8473	_	133 11		14	14 128				103 13		_	58	v √		++++ A+	14	6517	965 175	123 41				0275 340		_	131 217		130 58
PUZ-SWM140YAA	ERST20D-****D	✓ L	_		14 8392		135 12		14	14 128				105 15			58	1		+++ A+	14	6437	965 177	123 41	-			0226 331			132 223		130 58
	EHST30D-****D ERST30D-****D	✓ XL ✓ XL	A++ A++	A	14 8473 14 8392		134 11 135 11		14	14 128 14 128			1434 1434	104 14 105 15			58 58	√ √		++++ A ++++ A	14 14	6517 6437	1610 175 1610 177	114 41 114 41				0275 340			131 217 132 223		130 58 130 58
	EHST17D-****D	✓ L		A+	6 3761		129 13		6	6 49			846	115 15			54	1		+++ A+	6	2655	880 184	134 41	-	6		4202 143			138 220		135 54
	ERST17D-****D ERST17D-***BD	✓ L ✓ L			6 3706 6 3706		131 13 131 13		6	6 49 6 49				116 16 116 16			54 54	√ √		+++ A+ +++ A+	6	2600 2600	880 188 880 188	134 41 134 41			-	4168 137 4168 137			139 231 139 231		135 54 135 54
PUZ-SHWM60VAA	EHST20D-****D	✓ L		A+	6 3761		129 13		6	6 49			841	115 15			54	1		+++ A+	6	2655	898 184	134 41				4202 143			138 220		139 54
	ERST20D-****D EHST30D-****D	✓ L ✓ XL			6 3706 6 3761		131 13 129 12		6	6 49 6 49	60 1914 93 1980			116 16 115 15			54 54	√ √		+++ A+ +++ A+	6	2600 2655	898 188 1417 184	134 41 123 41	-			4168 137 4202 143			139 231 138 220		139 54 149 54
	ERST30D-****D	✓ ×L ✓ XL			6 3706		131 12		6	6 49				116 16			54	√ √		++++ A+	6		1417 184 1417 188	123 41				4168 137			139 231		149 54
	EHST17D-****D	✓ L			8 4904		132 13		8	8 67			846	115 16			54	1		+++ A+	8	3530	880 184	134 41		8	-	5299 187			146 225		135 54
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Barter de Bar	tilalämmityks Water heatin	3 0	класът на сезонната отоплителна енергийна ефективност la rlasse rl'efficacité énercéticue. cour le chaufface de l'eau
Constraint         Constraint <thconstraint< th="">         Constraint         Constrai</thconstraint<>	de energie-et	energieffektivitetsklass vid vattenuppvärmning	- arsvirkningsgrad ved vandopvarmning
Bern Reserved Subjects         Bern Reserved Subjects<	vedenlä Rated h	třída energetické účinnosti ohřevu vody die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	енергийната ефективност при подгряване ce thermique nominale dans les conditions cli
Construction         Construction<	de nominale warmteafgifte(onder gemiddelde klimaat	Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden)	elle nytteeffekt(under gennemsnitlige klimafo
Number         Number<	inmasto-olosunte	vykon(za prumernych kiimatickych podminek) ing, den jährlichen Energieverbrauch bei durchschnittlichen Klim	ата топлинна мощност(при средни климатични условия) uffage des locaux, la consommation annuelle d'énergie(dans
Numerical (No. 1)         Contrast (No. 1) <thcontrast (no.="" 1)<="" th=""> <thcontrast (no.="" 1)<="" <="" td=""><td>voor niimtevenvarmino het iaarliikse energieverbruik(onder gemiddelde</td><td>suppyärmning ärlig energiförbri kning/vid genomsnittling klimatförbållande</td><td>s moyennes) armning det årlige energiforbrug(under gennemsnitlige klimaf</td></thcontrast></thcontrast>	voor niimtevenvarmino het iaarliikse energieverbruik(onder gemiddelde	suppyärmning ärlig energiförbri kning/vid genomsnittling klimatförbållande	s moyennes) armning det årlige energiforbrug(under gennemsnitlige klimaf
Name         Name <th< td=""><td>voor iumiteveri wainimis, iret jaanijkse energijeveruruik(viriver germiduerve klimaatomstandigheden) viria materia gebeden</td><td>supprentiming, and energinoronaning via genoritoritoritaria.</td><td>runiopvaniming aat aninga anarginon nagumara gammananiminga kiintaron noon)</td></th<>	voor iumiteveri wainimis, iret jaanijkse energijeveruruik(viriver germiduerve klimaatomstandigheden) viria materia gebeden	supprentiming, and energinoronaning via genoritoritoritaria.	runiopvaniming aat aninga anarginon nagumara gammananiminga kiintaron noon)
Sector         Sector<	skimääräisissä ilmasto-olosuhteissa)	roční spotřeba energie za průměrných klima	отопление, годишното потребление на енергия(при средни климатични условия)
Numery of weight weig	annual electricity consumption under average climate conditions	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	ur le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions natiques moyennes)
Construction </td <td>voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandicheden)</td> <td>ärmning, årlig elförbruknir</td> <td>vandopvarmning det</td>	voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandicheden)	ärmning, årlig elförbruknir	vandopvarmning det
Constrained by any direct years of priority for any opping	mmaatomasamagineaan) vedenlänmityksestä vuotuinen sähkönkulutus(keskimääräisissä ilmasto-olosuhteissa)	ohřev vody – roční spotřeba elektrické energie za	за подгряване на вода, годишното потребление(при средни климатични условия)
Construction </td <td></td> <td>jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klima</td> <td>ve saisonnière pour le chauffage des locaux(dans les</td>		jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klima	ve saisonnière pour le chauffage des locaux(dans les
NetworkAnd service of a service	de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder	medelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållar	es) ved rumopvarmning(under gennemsnitlige klimaforhold)
Operation         Operation <t< td=""><td>klimaatomstandigheden) tilalämmityksen kausittainen energiatehokkuus(keskimääräisissä ilm</td><td>nnost vytápění za průměrných klimatických podmínek</td><td>на ефективност при отопление(при средни климатични условия)</td></t<>	klimaatomstandigheden) tilalämmityksen kausittainen energiatehokkuus(keskimääräisissä ilm	nnost vytápění za průměrných klimatických podmínek	на ефективност при отопление(при средни климатични условия)
Canada a dialong a manung a dialong and dialong and dialong and a dialong and dialong and a dialong and d	Water heating energy efficiency under average climate conditions	asserbereitungs-Energieeffizienz bei	pour le chauffage de l'eau(dans les conditions climatiques
Cardinal cardi	0	iing(vid genomsnittliga klimatförh	iteten ved vandopvarmning(under gennemsnitlige kli
Description of the property of the pro	<	průměrných klimatických podmír	ефективност при подгряване на вода(при средни климатични услов
But And Constraint Service         But Service Service         But Service Service         But Service Service         But Service Service         Service Service Service         Service Service Service         Service Service Service         Service Service Service Service         Service Servic	Sound power level L <sub>WA</sub> indoor	der Schallleistungspegel L <sub>WA</sub> , in Gebäuden	le niveau de puissance acoustique L wa , à l'intérieur
Marcine unity on an environmentBuild and selection belonging in the selection	13 het geluidsvermogensniveau L <sub>WA</sub> binnen äänitehotaso L <sub>WA</sub> sisällä	Ljudeftektnivá L <sub>WA</sub> i inomhus hladina akustického výkonu L <sub>WA</sub> ve vniťňním prostoru	lydeffektniveauet L <sub>WA</sub> i inde нивото на звуковата мощност L <sub>WA</sub> на закрито
Burger and Labor. Many and Burger and Labor. Since and	Work only during off-peak hours	dass ein ausschließlicher Betrieb des Kombiheizgerätes zu Schwachlastzeiten	fonctionner qu'en heures creuses
Balance and and an and a series of an analysis of an analy	14 werken utsluttend in de daluren toimimaan ainoastaan kulutushuippujen ulkopuolella	drīvas uteslutande under perioder med lag belastning provozu pouze mimo špičku	Tungere uden tor spidsbelastningsperioder работи само в часовете извън върховото натоварване
Citery and with a binary balance from an under the second of the seco	Rated heat output under colder climate conditions 15 Ide nominale warmteafgifte, onder koudere klimaatomstandigheden	die Wärmenennleistung bei kälteren Klimaverhältnissen Nominell avgiven värmeeffekt vid kallare klimatförhållanden	la puissance thermique nominale, dans les conditions climatiques plus froides den nominelle nytteeffekt under koldere klimaforhold
Constraint         Constra	nimellislämpöteho, kylmissä	chladnějších klimati	номиналната топлинна мощност при по-студени климатични усповия la ruissance therminue nominale dance les conditions climaticues plus chaudes
Construction         Construction<	de nominale warmteafgifte,	ekt vid varmare klima	lia puissance mermique nominale, dans les conditions climatiques plus chaudes den nominelle nytteeffekt under varmere klimaforhold
number of a number	nimellislämpöteho, lämpimissä ilmasto-olosuhteissa Eor space heating annual energy consumption under colder clin	výkon za teplejších klimatických podmínek una der išbrliche Energieverbrauch hei kálteren Klimaverbá	та топлинна мощност при по-топли климатични условия #ало des locality. la consommation annuelle d'énercie, dans les
converte converte converte supercharance superchara	· · · · · · · · · · · · · · · · · · ·		plus froides
Instrume         Instrum         Instrume         Instrume	voor runnieverwanning, net jaariijkse energieverbruik onber klimaatomstandigheden		aer suide eireidiioi nind midei kondere viimaionnoid
For proor handly, a mult energy consumption under warmer dinate conditions         End of a family and under system         End of a family and under syst	tilalämmityksestä vuotuinen energiankulutus kylmissä ilmasto-olosuhteissa		эние, годишното потребление на енергия при по-студени климатични услови
Curr universandEdit number of a number of	rgy consumption under warmer cl	umheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	ffage des locaux, la consommation annuelle d'énergie, dans les conditions
Immune membranden intermentational         investigation	voor ruimteverwarming, het jaarlijkse energieverbruik on	uppvärmning, årlig energiförbrukning under varmare klimatförhållanden	mning det årlige energiforbrug under varmere klimaforhold
Event where heading, annual energy consumption under coder of meter condroms         End devention an under of electricity, dans he condroms         End devention an under of elect	tilal	ápění – roční spotřeba energie za teplejších klimatických podmínek	е, годишното потребление на енергия при по-топли климатични условия
Non-vene-venering: het jaarlike eelkrichekverbrak onder kondere         Instance	For water heating, annual energy consumption under colder climate conditions	Warmwasserbereitung, der jährliche	e l'eau, la consommation annuelle d'électricité, dans les conditions
Instrumentangingenin         Instrumen	voor waterverv	ssen vattenuppvärmning, årlig elförbrukning	g det årlige elforbrug under koldere klimaforhold
Construction         Constructin         Construction         Construction </td <td>klimaatomstandigheden vedenlämmitvksestä vuotuinen sähkönkulutus kvimissä ilmasto-olosu</td> <td>vodv – roční spotřeba elektrické energie za chladnějších klimati</td> <td>вода, годишното потребление на електроенергия при по-студени кл</td>	klimaatomstandigheden vedenlämmitvksestä vuotuinen sähkönkulutus kvimissä ilmasto-olosu	vodv – roční spotřeba elektrické energie za chladnějších klimati	вода, годишното потребление на електроенергия при по-студени кл
Name         Instant         I	nergy consumption under warmer climate	rmwasserbereitung, der jährliche Stromverbrauch bei wärmeren	ни условия ни условия chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions
Non-waterwarming, nig annyce eventroeleswarming, ang entrochung under ramae eunancen         For vanouvparming, ang entrochung under roma         Final experimentation           vanouvparming, vanouvparming, ang entrochung         For othew rody - rochi spitriba elektrick energies z teplejsch klanatochung         Final experimentation         Final experimenta	i oi wara i realing, annuar ana gy consumption unior wanner unnas condutons voor waterverwarning het iaarliikes elektriciteiteverhnik onder warmere	annwasserberending, der Jannindre Onornverbra	natiques plus chaudes vandonvarmning det årlige elfo
wdenilimmitykastä wuluinen sähkörikuluus lämpinisal innasto-olsuhteisapro ohiev vody - notri spotfeba elektride energie za teplejäch kimalickych podminekan narpmaene ne spat, namunoro norpeforeme energiene on podraze nergiene on podraze neregiene on po	voor waterverwarming, net jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	huppvarmning, arlig eltorbrukning under varma	vandopvarmning det arlige elfororug under varmere klimatorhold
Seasonal space hading energy efficiency under coder climate conditions         de jahreszeibednege Effizientis voor ruintevervarming onder koudere         Bisangsmedie/koude         Ferdige effizientis voor ruintevervarming onder koudere         Ferdige effizientis voor ruintevervarming onder koudere kov	vedenlämmityksestä vuotuinen sähkönkulutus lämpimissä ilmasto-olosuhteissa	ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmír	зане на вода, годишното потребление на електроенергия при по-топли клим повия
Ge escensepsborden erergierficiente voor uninterververming onder koudere         Sisongemedelverkningsgreid for rumsupprämming under kalare klimatichallanden         ensisteringsgreiden verzingsgreiden verzingereiden verzingsgreiden verzingsgreiden verzingereid	Seasonal space heating energy efficiency under colder climate conditions	dingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnis:	énergétique saisonnière pour le chauffage des locaux, dans les conditions
Image: Instance         Sezonni energieticki účinnost vylapeni za chladnějšich klimatických podmínek         Cesonera enerpieticki energieticki v protene npm no-cryzem vrumare vruma voroem klimatorich podmínek         Cesonera energieticki v protene npm no-cryzem vrumare         Inflienza energietica sag           Ge seconeragebonden energie efficiente vor rumevemaming onder varmere         Ge seconeragebonden energie efficiente vor rumevemaming onder varmere         Sasongsmedelverkningsgrad för rumsupprämming under varmare klimatorihallanden         Feficacité énergétique sasonniere pour le chauffage des locaux, dans les conditions         Calde           Valar heating energy efficiency under colder climate vervemung on der kudee klimatorihalenden         Valar heating energy efficiency under varmere klimatorihalenden         A efficienza energetica di nergeticki účinnost vylapeni za teplejšich klimatických podminek         Cervenare energetica di nergeticki účinnost vylapeni za teplejšich klimatických podminek         Perpriektivitete vervemung on onervemu voroem pro no-cryme vrumare klimatorihalenden         A efficienza energetica di nergeticki účinnost vylapeni za teplejšich klimatických podminek         Perpriektivitete vervemung on onervemu voroem pro no-cryme vrumare klimatorihalenden         Perpriektivitete vervemung onervemu voroem pro no-cryme vrumare klimatorihalenden         Perpriektivitete vervemu voroem pro no-cryme vrumare klimatorihalenden         Perpriektivitete vervemu voroem pro no-cryme vrumare klimat	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder	smedelverkningsgrad för rumsuppvärmni	ved rumopvarmnir
Seasonal space heating energy efficiency under warmer climate conditions         de jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhälnissen         Fefficacité energietue saisonnière pour le chauffage des locaux, dans les conditions         Fefficacité energietues           de seizoensgebonden energie-efficientle voor ruimteverwarming onder warmere         Säsongsmedelverkningsgrad för rumsupprämming under varmare klimatförhållanden         Fefficacité energietues         Caudes         Ca	kiiritadorristarituigriederi tilalämmityksen kausittainen energiatehokkuus kylmissä ilmasto-olost	nost vytápění za chladnějších klimatických	енергийна ефективност при отопление при по-студени климатични условия
escoresignedclimatiques plus chardesclimatiques plus chardes	mer climate	jahreszelthedinate Raumheizrungs-Energieeffizienz hei wärmeren Klimaverhältniss	ue saisonnière nour le chauffane des locaux dans les conditions
de selzcensgebonden energie-efficientie voor ruimteverwarming onder warmere         Sasongsmedelverkningsgrad für rumsupprämming under varmare klimatförhållanden         årsvirkningsgraden ved rumspvarming under varmere klimatforhold         A eficieria energietica do           tillamatomstandigheden         sezonni energietick úcinnost vytapéni za teplejšich klimatických podminek         cesonwara exeprivitia expertivene run no-ronni kruwarniven vyroava elektyworsé energietica do i rumsupprämming under varmere klimatforhållanden         regio         ego         energietica do i rumsupprämning under kallare klimatforhållanden         ferlidera energietica do i rumsupprämning under kallare klimatforhållanden         reficienzie even run no-ronni kruwarniven vorone elektyworsé energietica do i rumsupprämmityksen energietica do i reficienzie energietica do i rumsupprämmityksen energietica do i rumsupprämmityksen energietica do i reficienzie energietica do i rumsupprämmityksen energietica do i reficienzie energietica do i rumsupprämmityksen energietica do i reficienzie energ	Seasonal space heating energy efficiency under warmer climate conditions	jahreszeitbedingte Raumheizungs-Energieettizienz bei warmeren Klimaverhaltniss	ue saisonnière pour le chautfage des locaux, dans les conditions audes
Natistationen energiatehokkus lämpinissä ilmasto-olosuhteissa         sezonni energetick ücinnost vytäpěni za teplejšich klimatických podmínek         cesonhara eneprviha edekrivehocr npv oronnenve npv no-ronnv krivmatriveh ycnoeva         sezonova elektywność en           Vater heating energie-efficiéntie voor waterverwarming onder koudere klimaatomstandigheden         Genergiefficienz bei kälteren Klimaverhältnissen         I efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         I efficienza energetica di redise           Vater heating energie-efficiéntie voor waterverwarming onder koudere klimaatomstandigheden         Energiefficienz bei vainnost ohrevu vody za chladnějšich klimatických podmínek         I energiefficientie ved vandoprarmning under koldere klimatorny morornyee va sopa npo-cryzee krivnekocr npv nogrpase va sopa npv no-cryzee krivnekocr npv nogrpase va sopa npv no-crvnev krivnekocr energietica do craudes varinde var	klir de	medelverkningsgrad för rumsuppvärmning under varmare klimatförhållan	ved rumopvarmning under varmere klimaforhold
Water heating energy efficiency under colder climate conditions         die Warnwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen         reficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         reficienz energetica di ré           de energie-efficientle voor waterverwarning onder koudere klimaatomstandigheden         Energieffektivitet vid vatteruppvärmning under kallare klimatforhållanden         energiefektivitet vid vatteruppvärmning under kallare klimatforhållanden         energiefektivitet vid vatteruppvärmning under kallare klimatforhållanden         energiefektivitet vid varterververververververververververververve	tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa	energetická účinnost vytápění za teplejších klim	енергийна ефективност при отопление при по-топли климатични усл
de energie-efficiêntie voor waterverwarming onder koudere klimaatomstandigheden         Energieffektivitet vid vattenuppvärmning under kallare klimatforhållanden         energiefektiviteten ved vandopvarmning under koldere klimatforhållanden         energietica os           vedenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa         energieffektivitet vid vattenuppvärmning under kallare klimatforhållanden         energiefektiviteten ved vandopvarmning under koldere klimatforhållanden         energiefektiviteten ved vandopvarmning under koldere klimatforhållanden         energiefektiviteten ved vandopvarmning under kallare klimatforhållanden         energiefektiviteten ved vandopvarmning under varmer klimatforhållanden         feficacite inergiefica os           de energie-efficientie voor waterverwarming onder warmere klimaatomstandigheden         Energiefektivitet vid vattenuppvärmning under varmare klimatforhållanden         energiefica os         energiefica os           vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa         Energieficktivitet vid vattenuppvärmning under varmare klimatforhållanden         energieficktiviteten ved vandopvarmning under varmere klimatorhold         energiefica os           sound power level L <sub>WA</sub> butlen         energieficktivitet vid vattenuppv	Water heating energy efficiency under colder climate conditions	ass	pour le chauffage de l'eau, dans les conditions clim
Verdenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa         energieticki učinnost ohfevu vody za chladnějšich klimatických podminek         energieticki vod vantovenou cover vantovenou covervantovane vantovenou cover vantovenou cover vantovenou cover v			teten ved vandonvarmning under koldere klimaforhold
Water heating energy efficiency under warmer climate conditions         die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen         Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         Pafficienza energetica di ris           Vater heating energy efficiency under warmer climate conditions         die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen         Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         Pafficienza energetica di ris           de energie-efficientie voor waterverwarming onder warmere klimaato-olosubtiessa         Energieffektivitet vid vartenuppvärmning under varmare klimatförhållanden         energiefektiviteten ved vandopvarmning under varmere klimatorhold         a eficiência energética do i           vedenlämmit/ksen energiatehokkuus lämpimissä ilmasto-olosubteissa         energetická účinnost ohřevu vody za teplejších klimatičkých podmínek         energiefektiviteten ved vandopvarmning under varmere kapa npu no-ronnu knuwaruv+uv ycnoeux         efektywność energetyczna           Sound power level L <sub>WA</sub> outdoor         der Schallleistungspegel L <sub>WA</sub> im Freien         le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur         il ivello di poterza sonora           Net gluidsvermogensniveau L <sub>WA</sub> bulten         Ljudefektrivián L <sub>WA</sub> i udomhus         On rivel de poterica sonora         On rivel de poterica sonora			енен уей уапооруантный иноет консете кы эфективност при подгряване на вода при
de energie-efficiêntie voor waterverwarming onder warmere klimaatomstandigheden Energiefiektivitet vid vattenuppvärmning under varmare klimaaförhållanden energiefiektiviteten ved vandopvarmning under varmere klimatorhöld vedenlämmityksen energiatehökkuus lämpimissa ilmasto-olosuhteissa energiefiekta üčinnost ohřev vody za teplejšich klimatických podmínek energiefiektiviteten ved vandopvarmning under varmere klimatorhöld Sound power level L <sub>WA</sub> outdoor der Schallleistungspegel L <sub>WA</sub> im Freien energienstiveau L <sub>WA</sub> butlen ka textérieur Integluidsvernogenstriveau L <sub>WA</sub> butlen L_WA butlen L_WA i l'extérieur	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	chauffage de l'eau, dans le
vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa energetická účinnost ohřevu vody za teplejšich klimatických podmínek енергийната ефективност при подгряване на вода при по-топли климатични условия Sound power level L <sub>WA</sub> outdoor der Schallleistungspegel L <sub>WA</sub> im Freien le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur ledelivermogenstriveau L <sub>WA</sub> buiten L <sub>WA</sub> buiten L <sub>WA</sub> i udontus	de eneraie-	opvärmn	
Image: Sound power level L <sub>WA</sub> outdoor     der Schallteistungspegel L <sub>WA</sub> im Freien     le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur       Sound power level L <sub>WA</sub> outdoor     Ljudeffektnivân L <sub>WA</sub> i utomhus     lydeffektnivân L <sub>WA</sub> i utomhus	vedenlämmi	vody za	ефективност при подгряване на вода при по-топли климатични
het geluidsvermogensniveau L <sub>WA</sub> buiten L <sub>WA</sub> i ude Ljudeffektnivån L <sub>WA</sub> i utomhus			-
		ien	acoustique L WA à l'extérieur

	Fenañol
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	unidad exterior Eξωτερική μονάδα
	unidad interior Ecrumpokh μονάδα
	- la aplicación de media temperatura In εφαριμογή σε μέση θεριμοκρασία
	- la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία
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	la clase de eficiencia energética estacional de calefacción η πάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου -
	la clase de eficiencia energética del caldeo de agua η τάξη εντεργειακής απόδοσης θέρμανσης νερού
	<ul> <li>a</li> <li>la policia calorífica nominal(en condiciones climáticas medias)</li> <li>n ονομαστική θεριμική ισχύς(υπό μέσες κλιματικές συνθήκες)</li> </ul>
imatiche	- para calentar espacios, el consumo anual de energía(en condiciones climáticas medias)
limáticas mé	ια τη θέρμανση χώρου
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natiche medie)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)
s climáticas m warunkach	για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές συνθήκες) -
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édias) owanego)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
	el nivel de potencia acústica L <sub>WA</sub> en interiores η στάθμη ηχητικής ισχύος L <sub>WA</sub> εσωτερικού χώρου
	funcionar solamente durante las horas de baja demanda λεπουργία μόνο εκτός των ωρών αιχμής
	a per la polecia calorífica nominal en condiciones climáticas más frías η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες
	la potencia calorífica nominal en condiciones climáticas más cálidas η ονοματική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες
limatiche più	- para calentar espacios, el consumo anual de energía en condiciones climáticas más frías
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다	
limatiche più limáticas mais	para calentar espacios, el consumo anual de energía en condiciones climáticas más cá lidas vird Brunovn vilnou i a rrhona kornováhvon svérovara umó Broulótaner klumtkér mivBriker
atu	
matiche più	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías
s climáticas	για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικέ ς συνθήκες
warunkach matiche più	<ul> <li>para calentar agua, el consumo anual de electricidad en condiciones climáticas más cá</li> </ul>
s climáticas	indas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές ισινθήκες
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naticas mais n klimatu chł	- KEC I skebkenkul anuooodi LIUS suuxianki eebhavauk Xmbon nuu hmXboisebsč kwihaukes anvedi -
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ı calde	eficiencia energética de caldeo de agua en condiciones climáticas má
is quentes lo	η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες -
	el nivel de potencia acústica L <sub>vin</sub> , en exteriores η στάθμη ηχητικής ισχύος L <sub>vin</sub> εξωτερικού χώρου

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	EHST17D-****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	8.0	kW	Seasonal space heating energy efficiency	η s	132	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 31	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 40	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8. 0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		· .	
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	4904	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind th				
百藤建一				Kenichi SAITO Manager, Quality Assuarance Department			
M HUE DE -				TURKEY			
· Dataile and proceutions on installation maintance			farmal in the	installation and or operation manuals			

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

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	EHST17D-****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	8.0	kW	Seasonal space heating energy efficiency	η s	184	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	3. 22	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0.98	_				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0. 98	_			I	
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2. 65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2. 65	-
			4				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	<u> </u>	Supplementary heater		1 1	
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW			11	
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items		1	11	1			
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	3530	kWh				
For heat pump combination heater:		1	11	1			
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details			ĮĮ.	•			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
Details and precautions on installation, maintena     Details and precautions on recycling and/or dis				installation and or operation manuals.			

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	EHST17D-****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	8.0	kW	Seasonal space heating energy efficiency	η s	115	%	
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for		
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj		
Tj = − 7 ° C	Pdh	4.9	kW	Tj = - 7 ° C	COPd	2. 65	-	
Degradation co-efficient (**)	Cdh	0. 99	-					
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 45	-	
Degradation co-efficient (**)	Cdh	0. 99	-					
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 78	-	
Degradation co-efficient (**)	Cdh	0. 98	-					
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6. 74	-	
Degradation co-efficient (**)	Cdh	0.97	-			L]		
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1.51	-	
Tj = operation limit temperature (***)	Pdh	5. 3	kW	Tj = operation limit temperature (***)	COPd	1.41	-	
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6.5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.51	-	
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than	active mo	de		Supplementary heater				
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2. 7	kW	
Thermostat-off mode	P <sub>T0</sub>	0.015	kW					
Standby mode	$P_{SB}$	0.015	kW	Type of energy input		Electrical		
Crankcase heater mode	Рск	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA					
Annual energy consumption	$Q_{\rm HE}$	6705	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%	
Daily electricity consumption	Qelec	4. 820	kWh					
Annual electricity consumption	AEC	1060	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey	
The identification and signature of the person empowered to bind the supplier: Kenichi SAITO								
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department				
		comportatu		TURKEY				
· Details and precautions on installation, maintena	ince and ass	embly can be	found in the	installation and or operation manuals.				
$\cdot$ Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.				

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	EHST17D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	146	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	4.8	kW	Tj = - 7 ° C	COPd	3. 53	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4. 0	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 56	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7. 56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1. 41	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2. 6	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	5299	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%
Daily electricity consumption	Qelec	4. 820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department							
TURKEY							
Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.							
Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.							

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	EHST17D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	167	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = − 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	_				
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	2.05	-
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 02	-
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = bivalent temperature	Pdh	8. 0	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2.05	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	1	Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW			••	
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items		I	1 1				
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	2521	kWh				
For heat pump combination heater:			• •				
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details		1	1 1				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the				
The signature is signed in the average ali	mata / madi	m-temporatu	ire section	Kenichi SAITO Manager, Quality Assuarance Department			
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY							
Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.							

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	EHST17D-****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.

	Value	Unit	Item	Symbol	Value	Unit
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	225	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 75	-
Cdh	0.99	-				
Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5. 20	-
Cdh	0.99	-				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7. 34	-
Cdh	0. 98	-			<u>.</u>	
Pdh	8. 0	kW	Tj = bivalent temperature	COPd	3. 75	-
Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	3. 75	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	2	°C	Heating water operating limit	WTOL	60	°C
active mo	de		Supplementary heater		11	
P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 015	kW			• • •	
$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
$L_{WA}$	41 / 54	dBA				
$\mathbf{Q}_{HE}$	1874	kWh				
		·				
	L		Water heating energy efficiency	$\eta$ wh	135	%
Qelec	3.850	kWh				
AEC	846	kWh				
				lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
e person	empowered t	to bind the				
The signature is signed in the average climate / medium-temperature section.						
	load at ure T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Tbiv Tbiv Tdesignh active mo P <sub>OFF</sub> P <sub>TO</sub> P <sub>SB</sub> P <sub>CK</sub> C UFACTURING T e person	Ioad at indoor           Ioad at indoor           ure T j           Pdh         -           Cdh         -           Pdh         8.0           Cdh         0.99           Pdh         5.1           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         0.015           PorF         0.015           PorK         0.000           Variable         Uraiable           L         QHE           Qelec         3.850           AEC         846           UFACTURING TURKEY JOINT S           e person empowered T	Ioad at indoor           ure T j           Pdh         -           Pdh         -           Pdh         -           Pdh         -           Pdh         8.0           KW           Cdh         0.99           Pdh         5.1           KW           Cdh         0.99           Pdh         4.7           KW           Cdh         0.99           Pdh         4.7           KW           Cdh         0.98           Pdh         8.0           KW           Pdh         8.0           KW           Pdh         8.0           KW           Pdh         8.0           KW           Pdh         2           C         C           active mode         -           PoFF         0.015           RW         N           PogFF         0.015           RW         N           PcK         0.000           PcK         0.000           C         -           L         - <td>Prated0.0KWenergy efficiencyIoad at indoorIoad at indoorDeclared coefficient of performance or prinure T j-KWDeclared coefficient of performance or prinPdhKWCdhPdh8.0KWTj = -7 ° CCdh0.99Pdh5.1KWTj = +7 ° CCdh0.99Pdh4.7KWTj = +12 ° CCdh0.98Pdh8.0KWTj = operation limit temperatureTbiv2° COperation limit temperatureTdesignh2° COperation limit temperatureMathematical Supplementary heaterSupplementary heaterPorp0.015KWType of energy inputPox0.000kWInput the supplementary for energy inputVariableLVariableRated air flow rate, outdoorsLUEACTURING TURKEY JOINT STOCK COMPANYManisa 0S8 4.Kisim Kecilikoyosb Mah. Amet Nazif Zora person empowered to bind the supplier:Kenchi SAITO</td> <td>Iracu       0.0       KN       energy efficiency       1/3         Ioad at indoor       Ioad at indoor       Ioad at indoor       1/3         Pdh       -       -       Ioad at indoor temperature 20 ° C and outdoor 20 ° C and 000 ° C ° C and 000 ° C ° C ° C ° C ° C ° C ° C ° C ° C</td> <td>Fride       0.0       KW       energy efficiency       1/1 s       223         load at indoor       are T j       Declared coefficient of performance or primary energy ratio for art load at indoor temperature 20 ° C and outdoor temperature Tj       Tj = -7 ° C       COPd       -         Pdh       -       -       -       -       -       -       -         Pdh       -       -       -       -       -       -       -       -         Pdh       8.0       KW       T j = -7 ° C       COPd       -       -       -         Pdh       5.1       KW       T j = +7 ° C       COPd       5.20       -       -         Cdh       0.99       -       -       -       -       -       -       -         Pdh       5.1       KW       T j = +7 ° C       COPd       5.20       -</td>	Prated0.0KWenergy efficiencyIoad at indoorIoad at indoorDeclared coefficient of performance or prinure T j-KWDeclared coefficient of performance or prinPdhKWCdhPdh8.0KWTj = -7 ° CCdh0.99Pdh5.1KWTj = +7 ° CCdh0.99Pdh4.7KWTj = +12 ° CCdh0.98Pdh8.0KWTj = operation limit temperatureTbiv2° COperation limit temperatureTdesignh2° COperation limit temperatureMathematical Supplementary heaterSupplementary heaterPorp0.015KWType of energy inputPox0.000kWInput the supplementary for energy inputVariableLVariableRated air flow rate, outdoorsLUEACTURING TURKEY JOINT STOCK COMPANYManisa 0S8 4.Kisim Kecilikoyosb Mah. Amet Nazif Zora person empowered to bind the supplier:Kenchi SAITO	Iracu       0.0       KN       energy efficiency       1/3         Ioad at indoor       Ioad at indoor       Ioad at indoor       1/3         Pdh       -       -       Ioad at indoor temperature 20 ° C and outdoor 20 ° C and 000 ° C ° C and 000 ° C ° C ° C ° C ° C ° C ° C ° C ° C	Fride       0.0       KW       energy efficiency       1/1 s       223         load at indoor       are T j       Declared coefficient of performance or primary energy ratio for art load at indoor temperature 20 ° C and outdoor temperature Tj       Tj = -7 ° C       COPd       -         Pdh       -       -       -       -       -       -       -         Pdh       -       -       -       -       -       -       -       -         Pdh       8.0       KW       T j = -7 ° C       COPd       -       -       -         Pdh       5.1       KW       T j = +7 ° C       COPd       5.20       -       -         Cdh       0.99       -       -       -       -       -       -       -         Pdh       5.1       KW       T j = +7 ° C       COPd       5.20       -

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	η s	132	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor te	mperature Tj	
Tj = − 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 31	_
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 40	_
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8. 0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW			•	
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	4904	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤正一				Manager, Quality Assuarance Department			
M MOLE DE -				TURKEY			
Details and precautions on installation maintenance and assembly can be found in the installation and or operation manuals							

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

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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.

8.0 t indoor 7.1 0.99 4.4 0.98 5.0	kW - kW	Seasonal space heating energy efficiency Declared coefficient of performance or prin part load at indoor temperature 20 °C and Tj = -7 °C			~
7. 1 0. 99 4. 4 0. 98	-	part load at indoor temperature 20 $^\circ$ C and Tj = - 7 $~^\circ$ C	outdoor ten	nperature Tj	_
0. 99 4. 4 0. 98	-	Tj = - 7 ° C			_
0. 99 4. 4 0. 98	-		COPd	3. 22	-
4. 4 0. 98	-				
0. 98	kW				
		Tj = + 2 ° C	COPd	4. 75	-
ΕO	-				
5.0	kW	Tj = + 7 ° C	COPd	5. 90	-
0. 98	-			<u></u>	
3.0	kW	Tj = +12 ° C	COPd	6. 52	-
0.97	-				
8. 0	kW	Tj = bivalent temperature	COPd	2. 65	-
8. 0	kW	Tj = operation limit temperature (***)	COPd	2. 65	-
	-				
-10	°C	Operation limit temperature	TOL	-30	°C
-10	°C	Heating water operating limit temperature	WTOL	60	°C
mode		Supplementary heater			
0. 015	kW	Rated heat output (*)	Psup	0.0	kW
0. 015	kW				
0. 015	kW	Type of energy input		Electrical	
0.000	kW				
variable		Rated air flow rate, outdoors	-	2220	m³/h
41 / 54	dBA				
3530	kWh				
L		Water heating energy efficiency	$\eta$ wh	134	%
4. 080	kWh				
898	kWh				
			lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
empowered	to bind th	e supplier; Kenichi SAITO			
The signature is signed in the average climate / medium-temperature section. The signature is signed in the average climate / medium-temperature section. TURKEY					
	0.97 8.0 8.0 -10 mode 0.015 0.015 0.015 0.015 0.015 0.015 0.000 variable 41 / 54 3530 L 4.080 898 G TURKEY JOINT S n empowered dium-temperatu	0.97         -           8.0         kW           8.0         kW           8.0         kW           0.015         kW           0.000         kW           variable         41 / 54           41 / 54         dBA           3530         kWh           G TURKEY JOINT STOCK COMPANY           n empowered to bind th           dium-temperature section.	0.97       -         8.0       kW         8.0       kW         7j = bivalent temperature         Tj = operation limit temperature (***)         0       ° C         node       Operation limit temperature         Heating water operating limit temperature         Supplementary heater         0.015       kW         0.015       kW         0.015       kW         0.015       kW         0.015       kW         0.000       KW         Rated air flow rate, outdoors         41 / 54       dBA         3530       kWh         KWh       Water heating energy efficiency         L       KWh         6 TURKEY JOINT STOCK COMPANY       Manisa 0SB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zor         n empowered to bind the supplier:       Kenichi SAITO         dium-temperature section.       Manager, Quality Assuarance Department	0.97       -         8.0       kW         8.0       kW         1       5         0       0         0       0         1       0         0       0	0.97       -         8.0       kW         8.0       kW         1j = bivalent temperature       COPd         1j = operation limit temperature       TOL         -10       ° C         Heating water operating limit       WTOL         60       Supplementary heater         0.015       kW         0.000       kW         Type of energy input       Electrical         variable       Rated air flow rate, outdoors       -         220       41 / 54       dBA         3530       kWh       Water heating energy efficiency $\eta$ wh         134       4.080       kWh         8 TURKEY JOINT STOCK COMPANY       Manisa 0SB 4.Kisim Kecilikoyoeb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - Manise 0SB 4.Kisim Kecilikoyoeb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - Manise OSH 4.Kisim Kecilikoyoeb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - Manise OSH 4.Kisim Kecilikoyoeb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunus

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	η s	115	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	4. 9	kW	Tj = - 7 ° C	COPd	2. 65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = +2 ° C	COPd	3. 45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 3	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	6. 74	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1. 51	-
Tj = operation limit temperature (***)	Pdh	5. 3	kW	Tj = operation limit temperature (***)	COPd	1. 41	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 51	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2. 7	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	6705	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%
Daily electricity consumption	Qelec	4. 750	k₩h				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the				
Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department							
TURKEY							
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or dis	Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.						

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	η s	146	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	4.8	kW	Tj = - 7 ° C	COPd	3. 53	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5.56	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	5299	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details				· ·			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – N	lanisa, Turkey
The identification and signature of th	ne person	empowered 1	to bind the				
The signature is signed in the average cli	mata / madiu	ım-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY							
· Details and precautions on installation, maintena	Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.						
Details and precautions on recycling and/or dis		•					

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s) :	Outdoor unit:	PUZ-SHWM80VAA
	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.

				-		Unit
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	167	%
load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for	
re Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8.0	kW	Tj = + 2 ° C	COPd	2. 05	-
Cdh	1.00	-				
Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3.60	-
Cdh	0.99	-				
Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 02	-
Cdh	0. 98	-				
Pdh	8. 0	kW	Tj = bivalent temperature	COPd	2. 05	-
Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode						
P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0.015	kW				
P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
P <sub>CK</sub>	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L <sub>WA</sub>	41 / 54	dBA				
$Q_{HE}$	2521	kWh				
	L		Water heating energy efficiency	$\eta$ wh	139	%
Qelec	3. 820	kWh				
AEC	841	kWh				
				u Bulvari No∷	19 Yunusemre – Ma	anisa, Turkey
person	empowered t	to bind the				
ate / mediu	ım-temperatu	re section.	Manager, Quality Assuarance Department			
	load at re T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh Pdh Tbiv Tdesignh active mo P <sub>0FF</sub> P <sub>T0</sub> P <sub>58</sub> P <sub>CK</sub> P <sub>CK</sub> C U LWA Q <sub>HE</sub> C U Parto P <sub>0FF</sub> P <sub>10</sub> P <sub>0FF</sub> P <sub>10</sub> P <sub>0FF</sub> P <sub>10</sub> P <sub>0FF</sub> P <sub>10</sub> P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> P <sub></sub>	Ioad at indoor           re T j           Pdh         -           Cdh         -           Pdh         8.0           Cdh         1.00           Pdh         5.2           Cdh         0.99           Pdh         4.5           Cdh         0.99           Pdh         4.5           Cdh         0.98           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         0.015           PorF         0.015           PosB         0.015           PocK         0.000           variable           L         QHE           Z521         L           Qelec         3.820           AEC         841           JFACTURING TURKEY JOINT S           person         empowered	load at indoor         re T j         Pdh       -         Pdh       -         Pdh       8.0         KW         Cdh       1.00         Pdh       5.2         RW       Cdh         Odh       0.99         Pdh       4.5         Cdh       0.98         Pdh       8.0         KW       KW         Cdh       0.98         Pdh       8.0         KW       KW         PoFF       0.015         KW       KW         PsB       0.015         KW       KWh         QHE       2521         KWh       KWh         AEC       841         KWh	Prated     0.0     KW     energy efficiency       load at indoor     Pdh     -       re T j     -     KW       Pdh     -     -       Pdh     8.0     KW       Cdh     1.00     -       Pdh     5.2     KW       Cdh     0.99     -       Pdh     4.5     KW       Cdh     0.98     -       Pdh     8.0     KW       Tobiv     2     ° C       Tdesignh     2     ° C       Operation     limit temperature       Tabiv     2     ° C       Operation     limit temperature       Heating water operating limit       temperature       Supplementary heater       Por     0.015       KW       Pox     0.000       KW       Pox     0.000       KW       Pox     0.000       KW       Pox     0.000       KWh       AEC     841       KWh       AEC       AE1 <td>Praced       0.0       KW       energy efficiency       7/3         load at indoor       Pdh       -       100</td> <td>Prace0.0KWenergy efficiency7/510/load at indoorPart load at indoor temperature 20 ° C and outdoor temperature TjPdh-KWPdhPdh8.0KWCdhPdh8.0KWCdh-Pdh5.2KWCdh0.99Pdh4.5KWTj = +7 ° CCdh0.98Pdh8.0KWTj = +12 ° CCdh0.98Pdh8.0KWTj = bivalent temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureToiv2CCOperation limit temperaturePari0.015KWType of energy inputPari0.000KWPari0.000KWPari0.000KWPari2.820KMhAEC841KWhPerson empower</td>	Praced       0.0       KW       energy efficiency       7/3         load at indoor       Pdh       -       100	Prace0.0KWenergy efficiency7/510/load at indoorPart load at indoor temperature 20 ° C and outdoor temperature TjPdh-KWPdhPdh8.0KWCdhPdh8.0KWCdh-Pdh5.2KWCdh0.99Pdh4.5KWTj = +7 ° CCdh0.98Pdh8.0KWTj = +12 ° CCdh0.98Pdh8.0KWTj = bivalent temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureCdh0.98Pdh8.0KWTj = operation limit temperatureToiv2CCOperation limit temperaturePari0.015KWType of energy inputPari0.000KWPari0.000KWPari0.000KWPari2.820KMhAEC841KWhPerson empower

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s) :	Outdoor unit:	PUZ-SHWM80VAA
	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.

Prated oad at T j Pdh	8.0 indoor	kW	Seasonal space heating energy efficiency	η s	225	%
Тj	indoor					
			Declared coefficient of performance or prim	nary energy	ratio for	
Pdh			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8. 0	kW	Tj = + 2 ° C	COPd	3. 75	-
Cdh	0. 99	-				
Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5. 20	-
Cdh	0. 99	-				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.34	-
Cdh	0. 98	-				
Pdh	8. 0	kW	Tj = bivalent temperature	COPd	3. 75	-
Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	3. 75	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
les i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode						
P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 015	kW				
$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
P <sub>CK</sub>	0. 000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
$L_{WA}$	41 / 54	dBA				
$\mathbf{Q}_{HE}$	1874	kWh				
	L		Water heating energy efficiency	$\eta$ wh	139	%
Qelec	3. 820	kWh				
AEC	841	kWh				
				u Bulvari No∷	19 Yunusemre – Ma	anisa, Turkey
person	empowered t	o bind the				
e / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
	-		TURKEY			
	Cdh Pdh Cdh Pdh Cdh Pdh Pdh Tbiv esignh Tbiv esignh Tbiv esignh Chr PorF PTO PSB PCK Corr LWA Q <sub>HE</sub> Delec AEC CTURING TD corrson () mediu	Cdh         0.99           Pdh         5.1           Cdh         0.99           Pdh         4.7           Cdh         0.98           Pdh         8.0           Pdh         0.015           Pro         0.015           PGK         0.000           Variable         L           LmA         41 / 54           QHE         1874           CTURING TURKEY JOINT ST         Storson empowered to           / medium-temperatu	Cdh         0.99         -           Pdh         5.1         kW           Cdh         0.99         -           Pdh         4.7         kW           Cdh         0.98         -           Pdh         8.0         kW           Porr         0.015         kW           Pro         0.015         kW           PcK         0.000         kW           L         L         L           Let algo algo algo algo algo algo algo algo	Cdh $0.99$ $-$ Pdh $5.1$ kWCdh $0.99$ $-$ Pdh $4.7$ kWCdh $0.99$ $-$ Pdh $4.7$ kWCdh $0.98$ $-$ Pdh $8.0$ kWPdh $8.0$ kWTbiv $2$ $^{\circ}$ Cesignh $2$ $^{\circ}$ CEtive modeOperation limit temperaturePorf $0.015$ kWPage $0.015$ kWPorg $0.015$ kWPorg $0.015$ kWPorg $0.015$ kWPorg $0.015$ kWPorg $0.000$ kWPorg $0.000$ kWPorg $0.015$ kWPorg $0.000$ kWType of energy input $Variable$ LWater heating energy efficiencyLelec $3.820$ kWhAEC841kWhAEC841kWhSTURING TURKEY JOINT STOCK COMPANYManisa 058 4.Kisim Kecilikoyosh Mah. Ahmet Nazif Zorliko SAITO/ medium-temperature section.Manager, Quality Assuarance Department	Cdh0.99-Pdh5.1kWCdh0.99Pdh4.7kWCdh0.98Pdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh2° COperation limit temperatureCOPdHeating water operating limit temperatureWTOLHeating water operating limit temperatureWTOLSupplementary heaterSupplementary heaterPorf0.015kWPos0.000kWType of energy input	Cdh0.99-Pdh5.1kWCdh0.99Pdh4.7kWTj = +12 ° CCdh0.98Pdh8.0kWKWPdh8.0kWTj = bivalent temperatureCOPd3.75Pdh8.0kWTj = operation limit temperature (***)COPd3.75Tbiv2° COperation limit temperatureTo v2° COperation limit temperatureTo v0.015kWPor0.015kWPor0.015kWType of energy inputPox0.000kWPox1874kWhMarisa 0SB 4.Kisim Kecilikoyoeb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunusemre - MCURING TURKEY JOINT STOCK COMPANYManisa 0SB 4.Kisim Kecilikoyoeb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunusemre - Mverson empowered to bind the supplier: Kenichi SAITO rumeKEYManager, Quality Assuarance Department TURKEYTURKEYand assembly can be found in the installation and or operation manuals.

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	ERST17D-****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	8.0	kW	Seasonal space heating energy efficiency	η s	133	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or pri	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 °C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 31	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	4849	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4.000	k₩h				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - Ma	anisa, Turkey
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121 HOR DE -				Manager, Quality Assuarance Department TURKEY			
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· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	ERST17D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	187	%
Declared capacity for heating for par	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	3. 22	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2.65	-
			•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	$L_{WA}$	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	3475	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
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The identification and signature of the The signature is signed in the average cline • Details and precautions on installation, maintenant • Details and precautions on recycling and/or discussion of the term of ter	mate / mediu	um-temperatu embly can be	re section.  found in the	Kenichi SAITO Manager, Quality Assuarance Department TURKEY installation and or operation manuals.			

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	ERST17D-****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	8.0	kW	Seasonal space heating energy efficiency	η s	115	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = − 7 ° C	Pdh	4.9	kW	Tj = - 7 ° C	COPd	2.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 45	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6. 74	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1. 51	-
Tj = operation limit temperature (***)	Pdh	5. 3	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 51	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2. 7	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	6672	kWh				
For heat pump combination heater:				·			
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%
Daily electricity consumption	Qelec	4. 820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	lanisa, Turkey
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	TURKEY						
Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.							
$\cdot$ Details and precautions on recycling and/or dis	Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.						

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	ERST17D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	147	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	4.8	kW	Tj = - 7 ° C	COPd	3. 53	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 56	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1. 41	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	$P_{0FF}$	0. 015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	5266	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%
Daily electricity consumption	Qelec	4. 820	k₩h				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
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· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or dis	Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.						

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	ERST17D-****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.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	171	%
load at	indoor			ary energy	ratio for	
ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8.0	kW	Tj = + 2 ° C	COPd	2. 05	-
Cdh	1.00	-				
Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3.60	-
Cdh	0. 99	-				
Pdh	4.5	kW	Tj = +12 ° C	COPd	6. 02	-
Cdh	0. 98	-				
Pdh	8.0	kW	Tj = bivalent temperature	COPd	2. 05	-
Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 015	kW				
$P_{SB}$	0.015	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable	-	Rated air flow rate, outdoors	-	2220	m³/h
L <sub>WA</sub>	41 / 54	dBA				
$Q_{\rm HE}$	2454	kWh				
	L		Water heating energy efficiency	$\eta$ wh	135	%
Qelec	3. 850	kWh				
AEC	846	kWh				
				u Bulvari No:	19 Yunusemre – M	anisa, Turkey
ie person	empowered	to bind the				
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	Prated Prated i load at Pdh Cdh PoFF Pro Ps8 PcK Cdh PcK Cdh PcK Pro Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh Cdh Cdh PcK Cdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh	Prated         8.0           Ioad at indoor           cure T j           Pdh           Cdh           Pdh           Rod           Odd           Pdh           State           Porr           O.015           PsB           O.015           Por           O.015           Por           Variable           L           Qelec           State           Person           Refere     <	Prated         8.0         kW           I load at indoor         :         :           indoor         -         kW           Cdh         -         -           Pdh         -         kW           Cdh         -         -           Pdh         8.0         kW           Cdh         1.00         -           Pdh         5.2         kW           Cdh         0.99         -           Pdh         4.5         kW           Cdh         0.99         -           Pdh         8.0         kW           Cdh         0.98         -           Pdh         8.0         kW           Pdh         8.0         kW           Tbiv         2         ° C           active mode         -         ° C           PorF         0.015         kW           PsB         0.015         kW           PcK         0.000         kW           U         -         -           Qelec         3.850         kWh           AEC         846         kWh	Prated8.0kWPrated8.0kWcload at indoorenergy efficiencysure T j-kWCdhPdh8.0kWCdhPdh8.0kWCdh1.00-Pdh5.2kWCdh0.99Pdh4.5kWCdh0.98Pdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWPdh8.0kWTbiv2° Cactive mode° CPorF0.015kWPorF0.015kWPorF0.000kWPorF0.015kWPor0.000kWPor2454kWhMax2454kWhNDFACTURING TURKEY JOINT STOCK COMPANYManisa 058 4.Kisim Kecilikoyesh Mah. Atmet Mazif ZorlineNDFACTURING TURKEY JOINT STOCK COMPANYManisa 058 4.Kisim Kecilikoyesh Mah. Atmet Mazif ZorlineRencin SAITOKencin SAITO	Prated8.0kWPrated8.0kWcload at indoorindoorPahPahPahPahPah8.0kWCah-Pah8.0kWCah-Pah5.2kWCah0.00Pah5.2kWCah0.99Pah4.5KWCahCah0.99Pah4.5KWCahCah0.98Pah8.0KWTj = +7 ° CCah0.98Pah8.0KWTj = bivalent temperatureCah0.88Pah8.0KWTj = operation limit temperatureCative modeCationParative modeSuplementary heaterParative modeSuplementary heaterParative modeCationParative modeRated air flow rate. outdoorsParative modeRated air flow rate. outdoorsParative modeSuplementary heaterParative modeRated air flow rate. outdoorsParative modeRated air flow rate. outdoorsParative modeSuplementary heaterParative modeRated air flow rate. outdoorsParative modeSuplementary heaterParative modeRated air flow rate. outdoorsParative modeSuplementary heaterParative modeSuplementary heat	Prated       8.0       KW         Prated       8.0       KW         Load at indoor       Declared coefficient of performance or primary energy ratio for per load at indoor temperature 20 °C and outdoor temperature Tj Tj = -7 °C       Condot or temperature 20 °C and outdoor temperature Tj Tj = -7 °C         Pdh       -       -       -         Pdh       -       -       -         Pdh       -       -       -         Pdh       5.2       KW       Tj = +7 °C       COPd         Cdh       0.99       -       -       -         Pdh       5.2       KW       Tj = +7 °C       COPd       3.60         Cdh       0.99       -       -       -       -       -         Pdh       5.2       KW       Tj = +12 °C       COPd       2.05         Cdh       0.99       -       -       -       -       -         Pdh       8.0       KW       Tj = operation limit temperature       COPd       2.05         Tbiv       2       °C       Operation limit temperature       TOL       -30         Heating water operating limit       WTOL       60       5       5         Pare       0.015       KW

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	Indoor unit:	ERST17D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	233	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 75	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5. 20	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.34	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3. 75	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	3. 75	-
			·				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	$P_{0FF}$	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	1808	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
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The signature is signed in the average clin	nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the				

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	ηs	133	%
Declared capacity for heating for part	t load at	indoor	1	Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = − 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 31	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8. 0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	4849	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	k₩h				
Annual electricity consumption	AEC	898	kWh				
Contact details		•					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind th				
百藤建一				Kenichi SAITO Manager, Quality Assuarance Department			
12 HOLE DE -				TURKEY			
· Dataile and proceptions on installation maintang			6	installation and or operation manuals			<u> </u>

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

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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.

Rated heat output (*)FDeclared capacity for heating for part Itemperature 20 ° C and outdoor temperatureTj = -7 ° CDegradation co-efficient (**)Tj = + 2 ° CDegradation co-efficient (**)Tj = +7 ° CDegradation co-efficient (**)Tj = +12 ° CDegradation co-efficient (**)Tj = +12 ° CDegradation co-efficient (**)Tj = bivalent temperatureTj = operation limit temperature (***)		8.0 indoor 7.1 0.99 4.4 0.98 5.0 0.98	kW - kW -	Seasonal space heating energy efficiency Declared coefficient of performance or prim part load at indoor temperature 20 ° C and Tj = - 7 ° C Tj = + 2 ° C			~
<pre>temperature 20 ° C and outdoor temperature Tj = -7 ° C Degradation co-efficient (**) Tj = +2 ° C Degradation co-efficient (**) Tj = +7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	e T j Pdh Cdh Pdh Cdh Cdh Pdh Cdh Pdh	7.1 0.99 4.4 0.98 5.0	-	part load at indoor temperature 20 $^\circ$ C and Tj = - 7 $^\circ$ C	outdoor tem COPd	perature Tj	-
<pre>Tj = - 7 ° C Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	Pdh Cdh Pdh Cdh Pdh Cdh Cdh Pdh	0. 99 4. 4 0. 98 5. 0	-	Tj = - 7 ° C	COPd		-
Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Pdh Cdh Pdh	0. 99 4. 4 0. 98 5. 0	-			3. 22	-
<pre>Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	Pdh Cdh Pdh Cdh Pdh	4. 4 0. 98 5. 0	- kW -	Tj = + 2 ° C	COPd	· · · · · · · · · · · · · · · · · · ·	
Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Pdh	0. 98 5. 0	kW -	Tj = + 2 ° C	COPd		
<pre>Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	Pdh Cdh Pdh	5.0	-			4. 75	-
Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh						
Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Pdh	0.08	kW	Tj = + 7 ° C	COPd	5.90	-
Degradation co-efficient (**) Tj = bivalent temperature		0.30	-			J	
Tj = bivalent temperature	Cdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
		0. 97	-			L1	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-
	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.65	-
		L4				L1	
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space To heating	designh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	ctive mo	de		Supplementary heater		ll	
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0. 000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	$L_{WA}$	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	3475	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details			•	-			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFA	ACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – Ma	anisa, Turkey
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The signature is signed in the average climate	ce / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
· Details and precautions on installation, maintenance		embly can be	found in the				

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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.

			Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	115	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	4.9	kW	Tj = - 7 ° C	COPd	2. 65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 3	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6. 74	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1.51	-
Tj = operation limit temperature (***)	Pdh	5. 3	kW	Tj = operation limit temperature (***)	COPd	1. 41	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 51	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2.7	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	6672	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details				· ·			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	NUFACTURING T	URKEY JOINT S	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	9 Yunusemre – Ma	anisa, Turkey
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The simulation is signed in the surger of in				Kenichi SAITO			
The signature is signed in the average clim	mare / medit	um-cemperatu	re section.	Manager, Quality Assuarance Department TURKEY			
· Details and precautions on installation, maintena	nce and acc	mhly can be	found in the				

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	η s	147	%	
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for		
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj		
Tj = - 7 ° C	Pdh	4.8	kW	Tj = - 7 ° C	COPd	3. 53	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	4. 30	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 56	-	
Degradation co-efficient (**)	Cdh	0. 98	-					
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7.56	-	
Degradation co-efficient (**)	Cdh	0.96	-					
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2. 05	-	
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1. 41	-	
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-	
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than	active mo	de		Supplementary heater				
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2.6	kW	
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW					
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical		
Crankcase heater mode	Рск	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA					
Annual energy consumption	$\mathbf{Q}_{HE}$	5266	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%	
Daily electricity consumption	Qelec	4. 750	k₩h					
Annual electricity consumption	AEC	1044	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey	
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Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department								
TURKEY								
· Details and precautions on installation, maintena	Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.							
$\cdot$ Details and precautions on recycling and/or disp	Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.							

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	ηs	171	%	
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for		
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	perature Tj		
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-					
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	2. 05	-	
Degradation co-efficient (**)	Cdh	1.00	-					
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3.60	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 02	-	
Degradation co-efficient (**)	Cdh	0. 98	-			I		
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2. 05	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2. 05	-	
			1			I		
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than	active mo	de		Supplementary heater		1		
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P <sub>T0</sub>	0.015	kW			ļļ		
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical		
Crankcase heater mode	P <sub>cK</sub>	0.000	kW					
Other items		I						
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA			<u> </u>		
Annual energy consumption	Q <sub>HE</sub>	2454	kWh					
For heat pump combination heater:			II	ł				
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	139	%	
Daily electricity consumption	Qelec	3. 820	kWh					
Annual electricity consumption	AEC	841	kWh					
Contact details			1 1					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:	19 Yunusemre – M	anisa, Turkey	
The identification and signature of th	ne person	empowered	to bind the					
				Kenichi SAITO				
The signature is signed in the average clin	The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department							
· Details and precautions on installation moistons	Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.							

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s):	Outdoor unit:	PUZ-SHWM80VAA
	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.

						Unit	
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	233	%	
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for		
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj		
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-	
Cdh	-	-					
Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 75	-	
Cdh	0.99	-					
Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5. 20	-	
Cdh	0.99	-					
Pdh	4.7	kW	Tj = +12 ° C	COPd	7.34	-	
Cdh	0. 98	-					
Pdh	8. 0	kW	Tj = bivalent temperature	COPd	3. 75	-	
Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3. 75	-	
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C	
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
active mo	de		Supplementary heater				
P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW	
P <sub>T0</sub>	0.015	kW					
$P_{SB}$	0.015	kW	Type of energy input		Electrical		
Рск	0.000	kW					
	variable		Rated air flow rate, outdoors	-	2220	m³/h	
L <sub>WA</sub>	41 / 54	dBA					
$\mathbf{Q}_{HE}$	1808	kWh					
		-					
	L		Water heating energy efficiency	$\eta$ wh	139	%	
Qelec	3.820	kWh					
AEC	841	kWh					
				lu Bulvari No∷	19 Yunusemre – Ma	anisa, Turkey	
e person	empowered	to bind the					
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TURKEY							
	load at ure T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Tbiv Tdesignh active mo PorF PT0 PSB PCK PT0 PSB PCK UFACTURING T e person	load at indoor           ure T j           Pdh         -           Cdh         -           Pdh         8.0           Cdh         0.99           Pdh         5.1           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         8.0           Pdh         0.98           Pdh         8.0           Pdh         0.015           PTO         0.015           P <sub>SB</sub> 0.015           P <sub>CK</sub> 0.000           Variable           L         41 / 54           QHE         1808           UFACTURING TURKEY JOINT S         841           ute / medium-temperatu         1	load at indoor           ure T j           Pdh         -           Pdh         -           Pdh         -           Pdh         -           Pdh         8.0           KW           Cdh         0.99           Pdh         5.1           KW           Cdh         0.99           Pdh         4.7           KW           Cdh         0.99           Pdh         8.0           KW           Cdh         0.98           Pdh         8.0           KW           Poh         0.015           KW           PoFF         0.015           Poss         0.015           Poss         0.015           KW         A           Poss         0.015           KW         A	Prated     0.0     KW     energy efficiency       load at indoor     Ioad at indoor     Declared coefficient of performance or primpart load at indoor temperature 20 ° C and       Pdh     -     -       Pdh     8.0     KW       Cdh     0.99     -       Pdh     5.1     KW       Cdh     0.99     -       Pdh     4.7     KW       Cdh     0.99     -       Pdh     8.0     KW       Tbiv     2     ° C       Tdesignh     2     ° C       Porr     0.015     KW       Porg     0.015     KW       Pox     0.000     KW       Pox     0.000     KW       Pox     0.000     KWh       Pox     1808     KWh       Pox     1808     KWh       Pox     1808     KWh       AEC     841        KWh </td <td>Prate     8.0     KW     energy     efficiency     7/5       Ioad at indoor       yrs     Pdh     -     KW     Declared coefficient of performance or primary energy part load at indoor temperature 20 ° C and outdoor tem       Pdh     -     -     -     Coefficient     Tj = -7 ° C     COPd       Pdh     -     -     -     -     -     Coefficient     CoPd       Pdh     5.1     KW     KW     Tj = + 2 ° C     COPd     COPd       Cdh     0.99     -     -     -     -     COPd       Cdh     0.99     -     -     -     -     COPd       Cdh     0.99     -     -     -     -     COPd       Cdh     0.99     -     -     -     COPd     COPd       Cdh     0.99     -     -     -     COPd     COPd       Cdh     0.98     -     -     Tj = +7 ° C     COPd     COPd       Cdh     8.0     KW     Tj = operation limit temperature     COPd     COPd       Toix     2     ° C     Operation limit temperature     TOL     Heating water operating limit     WTOL    &lt;</td> <td>Index       0.0       NM       energy efficiency       1/8       233         load at indoor       are T j       Declared coefficient of performance or primary energy ratio for art load at indoor temperature 20 ° C and outdoor temperature Tj       Tj = -7 ° C       COPd       -         Pdh       -       -       -       -       -       -       -         Pdh       8.0       KW       Tj = -7 ° C       COPd       -       -         Odh       0.99       -       -       -       -       -       -         Pdh       5.1       KW       Tj = +7 ° C       COPd       5.20       -       -         Cdh       0.99       -       -       -       -       -       -       -         Pdh       5.1       KW       Tj = +7 ° C       COPd       3.75       -</td>	Prate     8.0     KW     energy     efficiency     7/5       Ioad at indoor       yrs     Pdh     -     KW     Declared coefficient of performance or primary energy part load at indoor temperature 20 ° C and outdoor tem       Pdh     -     -     -     Coefficient     Tj = -7 ° C     COPd       Pdh     -     -     -     -     -     Coefficient     CoPd       Pdh     5.1     KW     KW     Tj = + 2 ° C     COPd     COPd       Cdh     0.99     -     -     -     -     COPd       Cdh     0.99     -     -     -     -     COPd       Cdh     0.99     -     -     -     -     COPd       Cdh     0.99     -     -     -     COPd     COPd       Cdh     0.99     -     -     -     COPd     COPd       Cdh     0.98     -     -     Tj = +7 ° C     COPd     COPd       Cdh     8.0     KW     Tj = operation limit temperature     COPd     COPd       Toix     2     ° C     Operation limit temperature     TOL     Heating water operating limit     WTOL    <	Index       0.0       NM       energy efficiency       1/8       233         load at indoor       are T j       Declared coefficient of performance or primary energy ratio for art load at indoor temperature 20 ° C and outdoor temperature Tj       Tj = -7 ° C       COPd       -         Pdh       -       -       -       -       -       -       -         Pdh       8.0       KW       Tj = -7 ° C       COPd       -       -         Odh       0.99       -       -       -       -       -       -         Pdh       5.1       KW       Tj = +7 ° C       COPd       5.20       -       -         Cdh       0.99       -       -       -       -       -       -       -         Pdh       5.1       KW       Tj = +7 ° C       COPd       3.75       -	

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	η s	132	%
Declared capacity for heating for part	t load at	indoor	1	Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 31	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 8	kW	Tj = +12 ° C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	4904	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	he person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤在一				Kenichi SAITO Manager, Quality Assuarance Department			
M HUIDE				manager, quality Assuarance Department			

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

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	η s	184	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	3. 22	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5. 90	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2. 65	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	$L_{WA}$	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	3530	kWh				
For heat pump combination heater:				· ·			
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details		1	II	+			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAD	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
The identification and signature of th	e person	empowered	to bind th	e supplier; Kenichi SAITO			
The signature is signed in the average climate / medium-temperature section. 							

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	η s	115	%	
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for		
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj		
Tj = − 7 ° C	Pdh	4.9	kW	Tj = - 7 ° C	COPd	2.65	-	
Degradation co-efficient (**)	Cdh	0. 99	-			L]		
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 45	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 78	-	
Degradation co-efficient (**)	Cdh	0. 98	-					
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6. 74	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1.51	-	
Tj = operation limit temperature (***)	Pdh	5. 3	kW	Tj = operation limit temperature (***)	COPd	1. 41	-	
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 51	-	
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than	active mo	de		Supplementary heater				
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2.7	kW	
Thermostat-off mode	P <sub>T0</sub>	0.015	kW					
Standby mode	$P_{SB}$	0.015	kW	Type of energy input		Electrical		
Crankcase heater mode	Рск	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA					
Annual energy consumption	$Q_{HE}$	6705	kWh					
For heat pump combination heater:				-				
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%	
Daily electricity consumption	Qelec	4. 750	kWh					
Annual electricity consumption	AEC	1044	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey	
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Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department								
	TURKEY							
· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.								
Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.								

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model (s):	Outdoor unit:	PUZ-SHWM80VAA
	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	8.0	kW	Seasonal space heating energy efficiency	ηs	146	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	4.8	kW	Tj = - 7 ° C	COPd	3. 53	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.5	kW	Tj = + 7 ° C	COPd	5.56	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1. 41	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	-	Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	5299	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	k₩h				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – N	lanisa, Turkey
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The signature is signed in the average cli	mate / mediu	um-temperatu	re section	Manager, Quality Assuarance Department			
		comportatu		TURKEY			
· Details and precautions on installation, maintena	ince and asse	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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.

ted I at J Ih	8.0 indoor -	kW	Seasonal space heating energy efficiency Declared coefficient of performance or prim part load at indoor temperature 20 °C and	$\eta$ s mary energy	167 ratio for	%
j lh			Declared coefficient of performance or prim	ary energy	ratio for	
lh	_		part load at indoor temperature 20 ° C and			
	-			outdoor tem	nperature Tj	
lh		kW	Tj = - 7 ° C	COPd	-	-
	-	-				
lh	8.0	kW	Tj = + 2 ° C	COPd	2. 05	-
lh	1.00	-				
lh	5. 2	kW	Tj = + 7 ° C	COPd	3.60	-
lh	0.99	-				
lh	4.5	kW	Tj = +12 ° C	COPd	6. 02	-
lh	0. 98	-				
lh	8. 0	kW	Tj = bivalent temperature	COPd	2. 05	-
lh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
iv	2	°C	Operation limit temperature	TOL	-30	°C
i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
ve mo	de		Supplementary heater			
FF	0.015	kW	Rated heat output (*)	Psup	0.0	kW
0	0.015	kW				
B	0.015	kW	Type of energy input		Electrical	
ж	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
IA	41 / 54	dBA				
IE	2521	kWh				
	L		Water heating energy efficiency	$\eta$ wh	139	%
ec	3. 820	kWh				
C	841	kWh				
				u Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
son	empowered t	to bind the				
mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	DFF TO SB CK WA HE EC EC JRING T rson ' medit	dh       5. 2         dh       0.99         dh       4. 5         dh       0.98         dh       8.0         dh       8.0         dh       8.0         dh       2         iignh       2         ve       mode         VFF       0.015         0.015       0.015         0.000       0.000         variable       41 / 54         HE       2521         L       1         Lec       3.820         EC       841         JRING TURKEY JOINT ST       rson empowered to the statue         ind assembly can be       10	th $5.2$ kW         th $0.99$ -         th $4.5$ kW         th $0.99$ -         th $8.0$ kW         th $2^{\circ}$ C $^{\circ}$ C         ve       mode       -         Ve $0.015$ kW         SB $0.015$ kW         ck $0.000$ kW         variable       -       -         wA $41 / 54$ dBA         HE $2521$ kWh         EC $841$ kWh         JRING TURKEY JOINT STOCK COMPANY       rson empowered to bind the         ' medium-temperature section.       -	dh $5.2$ kW $Tj = + 7 ° C$ dh $4.5$ kW $Tj = + 7 ° C$ dh $4.5$ kW $Tj = +12 ° C$ dh $8.0$ kW $Tj = bivalent temperature$ dh $8.0$ kW $Tj = operation limit temperature (****)$ viv $2$ $° C$ Operation limit temperaturelignh $2$ $° C$ $C$ ve mode $\circ C$ Supplementary heaterver $0.015$ kWRated heat output (*)ro $0.015$ kWType of energy inputox $0.000$ kWRated air flow rate, outdoorsLLLWater heating energy efficiencylec $3.820$ kWhKWhRated air flow rate, outdoorsRated air flow rate, outdoorsKWhRated air flow rate, outdoorsKWhRated air flow rate, outdoorsKWhKWhKated air flow rate, outdoorsKWhKated air flow rate, outdoorsKWhKated air flow rate, outdoorsKeile SATOKated air flow rate, outdoorsKWhKeile SATOKated air flow rate, outdoorsKeile SATOKated air flow rate, outdoors	dh       5.2       kW         dh       0.99       -         dh       4.5       kW         dh       4.5       kW         dh       0.98       -         dh       8.0       kW         cignh       2       ° C         or       0.015       kW         ver mode       Supplementary heater         Stage       0.015       kW         ox       0.000       kW         variable       Rated air flow rate, outdoors       -         wariable       Rated air flow rate, outdoors       -         ktil       54       dBA       -         ktil       kWh       Water heating energy efficiency $\eta$ wh         lec       3.820       kWh       KING TURKEY JOINT STOCK COMPAN	dh       5.2       KW       Tj = +7 ° C       COPd       3.60         dh       0.99       -       Tj = +7 ° C       COPd       6.02         dh       4.5       KW       Tj = +12 ° C       COPd       6.02         dh       8.0       KW       Tj = bivalent temperature       COPd       2.05         dh       8.0       KW       Tj = operation limit temperature (++++)       COPd       2.05         viv       2       ° C       Operation limit temperature       TOL       -30         Heating water operating limit       WTOL       60       60       60         ver mode       Supplementary heater       Rated heat output (+)       Psup       0.0         0.015       KW       Type of energy input       Electrical         variable       Rated air flow rate, outdoors       -       2220         w       41 / 54       dBA       Mater heating energy efficiency $\eta$ wh       139         lec       3.820       KWh       Keichi SAITO       Kenchi SAITO       Kenchi SAITO         rson empowered to bind the supplier:       Kenchi SAITO       Kenchi SAITO       Kenchi SAITO         'medium-temperature section.       Manager, Quality Assuarance Department TURKEY<

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):	Outdoor unit:	PUZ-SHWM80VAA
	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.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	225	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 75	-
Cdh	0. 99	-				
Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5. 20	-
Cdh	0.99	-				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.34	-
Cdh	0. 98	-				
Pdh	8. 0	kW	Tj = bivalent temperature	COPd	3. 75	-
Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	3. 75	-
		1			LJ	
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater		1	
P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 015	kW				
$P_{SB}$	0.015	kW	Type of energy input		Electrical	
P <sub>CK</sub>	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L <sub>WA</sub>	41 / 54	dBA				
Q <sub>HE</sub>	1874	kWh				
		ι <u></u>				
	L		Water heating energy efficiency	$\eta$ wh	139	%
Qelec	3. 820	kWh				
AEC	841	kWh				
		11	1			
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	9 Yunusemre - M	anisa, Turkey
e person	empowered	to bind the	supplier; Kenichi SAITO			
nate / mediu	ım-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
	load at ure T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Tbiv Tdesignh active mo PorF Pto PcK Pto PcK Qelec AEC	load at indoor           ure T j           Pdh         -           Cdh         -           Pdh         8.0           Cdh         0.99           Pdh         5.1           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         4.7           Cdh         0.99           Pdh         4.7           Cdh         0.98           Pdh         8.0           Pdh         8.0           Tbiv         2           active mode         0.015           P <sub>0FF</sub> 0.015           P <sub>SB</sub> 0.015           P <sub>CK</sub> 0.000           variable           L         Qelec           AEC         841           WFACTURING TURKEY JOINT S         e	Ioad at indoor           ure T j           Pdh         -           Pdh         -           Pdh         -           Pdh         -           Pdh         8.0           KW         Cdh           O.99         -           Pdh         5.1           KW         Cdh           Cdh         0.99           Pdh         4.7           KW         Cdh           O.98         -           Pdh         8.0           KW         8.0           Pdh         8.0           KW         8.0           KW         8.0           Pdh         8.0           Statistics         C           active mode         -           PorF         0.015           RW         0.000           PsB         0.015           Variable         -           L         -           Qelec         3.820           KWh         AEC           841         KWh	Prated     0.0     KW     energy efficiency       load at indoor     Declared coefficient of performance or primpart load at indoor temperature 20 ° C and       Pdh     -     KW       Cdh     -       Pdh     -       Cdh     -       Pdh     8.0       KW     KW       Cdh     0.99       Pdh     5.1       KW     KW       Cdh     0.99       Pdh     4.7       KW     KW       Cdh     0.99       Pdh     8.0       KW     KW       Cdh     0.99       Pdh     8.0       KW     KW       Tbiv     2       ° C     Operation limit temperature       Tbiv     2       ° C     Operation limit temperature       Heating water operating limit       temperature       Supplementary heater       Porr     0.015       KW       Pox     0.000       WW       Variable       L       Variable       L       Variable       Rated air flow rate, outdoors       Variable       L       Variable       L	Prateu0.0KNenergyefficiency7/5Ioad at indoorIoad at indoorIoad at indoorIoad at indoorPdhPdhPdh8.0KWTj = -7 ° CCOPdCdh0.99Pdh5.1KWTj = +7 ° CCOPdCdh0.99Pdh5.1KWTj = +7 ° CCOPdCdh0.99Pdh4.7KWTj = +12 ° CCOPdCdh0.98Pdh8.0KWTj = operation limit temperatureCOPdCdh0.98Pdh8.0KWTj = operation limit temperatureCOPdCdh0.015KWPare f0.015KWPare f0.015KWType of energy input-Pare f0.015KWPare f	Iracu       0.0       KW       energy officiency       1/1 S       223         Ioad at indoor       Declared coefficient of performance or primary energy ratio for         ure T j       Path       -       KW       Declared coefficient of performance or primary energy ratio for         Pdh       -       -       -       -       -         Pdh       -       -       -       -       -         Pdh       8.0       KW       Tj = -7 ° C       COPd       -         Odh       0.99       -       -       -       -         Pdh       5.1       KW       Tj = +7 ° C       COPd       5.20         Cdh       0.99       -       -       -       -         Pdh       5.1       KW       Tj = +12 ° C       COPd       5.20         Cdh       0.99       -       -       -       -       -         Pdh       8.0       KW       Tj = +12 ° C       COPd       3.75       -         Tbiv       2       ° C       Operation limit temperature       TOL       -30         Heating water operating limit       WTOL       60       -       -       220         ative mode <td< td=""></td<>

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

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