

DG79V342H15

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 _{wi} 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 _W 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 _{wi} 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 MIDO WAY	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 MIDO WAY	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 ige clir	e efficie e cond	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 _u	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 _v	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 _u
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 erage (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 hual 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 [№] 1 % %	dB ∛	윤 흥 kW	KM KN Milo R KN	h kWh	kWh	kWh	358 S5 % %	20 % U	sy nun	ගි dB	٩	å °	en e	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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Construction Construction<	de nominale warmteafgifte(onder gemiddelde klimaat	Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden)	elle nytteeffekt(under gennemsnitlige klimafo
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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)
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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 _{WA} indoor	der Schallleistungspegel L _{WA} , 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 _{WA} binnen äänitehotaso L _{WA} sisällä	Ljudeftektnivá L _{WA} i inomhus hladina akustického výkonu L _{WA} ve vniťňním prostoru	lydeffektniveauet L _{WA} i inde нивото на звуковата мощност L _{WA} 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
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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
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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 valuesiaming/kesisti vuoluien situkoikuus ilimpinissi ilimisto-olouuhlessa Por ohitvi voly – rochi spitriba elektrick energie zi talejäjäch ilimisto/ci pormink anauvpaeue augu, nyuuuvon onopdineue elektrick energies zi talejäjäch ilimisto/ci pormink anauvpaeue augu, nyuuuvon onopdineue elektrick energies zi talejäjäch ilimisto/ci pormink remazination remazination osasonal spoce heating energi efficienti voor rumineverviming onder kodere Sasongrandeverkning grad for nunupparting under value kinationali remazinationali	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 ohre vordy - nočni spotfeba elektride energie za teplejäch kimalických podminekan nazpnaene ne spot. namueno no profese wordy - nočni spotfeba elektride energie za teplejäch kimalických podminekan nazpnaene ne spot. namueno no profese wordy - nočni spotfeba elektride energie statu cabegoSaasonal spote healing energy efficienty unter oolder climate conditorsdis janezzattedinge faumine; under kalare kimationiaInflacate kinagitare, bas inflacate kinagitare, bas	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 Efficientissen Efficiency energie efficientissen Efficiency energie efficientis voor ruintervervarming onder koudere Bioangsmedieverkningsgrad für umsupprämming under kalare klimatifohallanden Ensupprämming un	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
Geschenzigsborden erergierficiente voor uninterververming onder koudere Sisongsmedelverkningsgreid for rumsupprämming under kalare klimatichallanden ensisteringsgreiden verzingsgreiden verzingereiden verzingsgreiden verzingsgreiden verzingerzing	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 energietica für rumsupprämming under varmare klimatförhållanden érisvirkningsgraden ved rumspvarming under varmere klimatforhold ego energietica für rumsupprämming under kallare klimatförhållanden ferligeriser klimatförhold energietica für rumsupprämming under kallare klimatförhållanden energiefickiviteten ved vandopvarmning under varmere klimatförhold energiefickiviteten ved vandopvarmning under varmare klimatförhållanden energiefickiviteten ved vandopvarmning under varmere klimatförhållanden energiefickiviteten ved vandopvarmning under varmere klimatförhållanden energiefickiviteten ved vandopvarmning under varmere klimatförhold eficiencia energietica do raticiera energi	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 oronnerve npv oronnerve npv no-ronnu krivmatriveh ycnoeva sezonova elektywność en Vater heating energie-efficiéntie voor watervervarming onder koudere klimaatomstandigheden Genergiefficienz bei kälteren Klimaverhältnissen I efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus I efficienz energetica di recipie efficienz bei kälteren Klimaverhältnissen I efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus I efficienz energetica di recipie efficienz bei kälteren Klimaverhältnissen I efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus I efficienz energética do Vater heating energie-efficients voor watervervarming onder warmer climate conditions energiefeficienz bei wärmeren Klimaverhältnissen I efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus I efficienz energética do Vater heating energie efficients voor watervervarming onder warmer klimatoholds energiefeficienz vod y za teplejšich klimatických podmínek energiefektiviteten ved vandopvarmning under varmere klimatohold energiefica do vedenlämmityksen energiatehokkuus lämpimisša ilmasto-olosuhteissa Energiefektivitet vid vattenuppvärmning under varmare klimatohych podmínek energiefica do i energiefica do vedenlämmityksen energiatehokkuus l	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 energieffektiviteten 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 _{WA} butlen energieficktivitet vid vattenupp	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
Mater 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 Valer 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 knuwaru+uv ycnoeux efektywność energetyczna Sound power level L _{WA} outdoor der Schallleistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur il ivello di poterza sonora Net geludsvermogensniveau L _{WA} bulten Ljudefektrivián L _{WA} i udorhuka lorvel de potencia sonora On rivel de potencia 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 _{WA} outdoor der Schallleistungspegel L _{WA} im Freien energienstiveau L _{WA} butlen ka textérieur Integluidsvernogenstriveau L _{WA} 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 _{WA} outdoor Sound power level L _{WA} outdoor Inet goludisvermogenstriveau L _{WA} bullen L_WA i l'extérieur Inet goludisvermogenstriveau L _{WA} bullen L_WA i l'extérieur	de eneraie-	opvärmn	
Image: Sound power level L _{WA} outdoor der Schallteistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur Sound power level L _{WA} outdoor Ljudeffektnivân L _{WA} i utomhus lydeffektnivân L _{WA} i utomhus	vedenlämmi	vody za	ефективност при подгряване на вода при по-топли климатични
het geluidsvermogensniveau L _{WA} buiten L _{WA} i ude Ljudeffektnivån L _{WA} i utomhus			-
		ien	acoustique L WA à l'extérieur

	Fenañol
	EAAŋvıká
	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
	erfil de carga declara ηλωμένο προφίλ φορ
	clase de eficiencia energética esta
	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
	 a la policia calorífica nominal(en condiciones climáticas medias) n ονομαστική θεριμική ισχύς(υπό μέσες κλιματικές συνθήκες)
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) -
limatiche	la eficiencia energética estacional de calefacción(en condiciones climáticas medias)
náticas mé	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες)
n klimatu edie)	ficiencia energética del caldeo de aqua(en condiciones climáticas medias)
édias) owanego)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
	el nivel de potencia acústica L _{WA} en interiores η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	funcionar solamente durante las horas de baja demanda λεπουργία μόνο εκτός των ωρών αιχμής
	a per la policia 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
limáticas mais	για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
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 svénverar umó Broulótener 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	 para calentar agua, el consumo anual de electricidad en condiciones climáticas más cá
s climáticas	indas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές ισινθήκες
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auche piu	inergenca estacional de caletacción en condiciones climaticas mas in renéferences estacional de caletacción en condiciones climaticas mas in
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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 _{vin} , en exteriores η στάθμη ηχητικής ισχύος L _{vin} εξωτερικού χώρου

Model(s):	Outdoor unit:	PUZ-SHWM120VAA
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	136	%			
Declared capacity for heating for par-	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	10. 7	kW	Tj = − 7 ° C	COPd	2. 13	_			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4. 75	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	3. 8	kW	Tj = +12 ° C	COPd	6. 32	-			
Degradation co-efficient (**)	Cdh	0. 98	-							
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	1. 78	-			
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	1. 78	-			
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than	active mo	ode	-	Supplementary heater						
Off mode	P_{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{T0}	0. 015	kW							
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical				
Crankcase heater mode	Рск	0. 000	kW							
Other items										
Capacity control		variable	-	Rated air flow rate, outdoors	-	2640	m³/h			
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA							
Annual energy consumption	Q_{HE}	7169	kWh							
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η wh	-	%			
Daily electricity consumption	Qelec	-	kWh							
Annual electricity consumption	AEC	-	kWh							
Contact details										
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey										
The identification and signature of the	he person	empowered	to bind th	e supplier: Kenichi SAITO						
百藤建一				Manager, Quality Assuarance Department						
1-1 1-1 D+				TURKEY						
Details and pressutions on installation maintane	-	amply and he	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-SHWM120VAA
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	179	%	
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	i	
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = − 7 ° C	COPd	2.85	-	
Degradation co-efficient (**)	Cdh	1.00	_					
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4. 53	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6.04	-	
Degradation co-efficient (**)	Cdh	0. 98	-			,		
Tj = +12 ° C	Pdh	4. 0	kW	Tj = +12 ° C	COPd	7. 02	-	
Degradation co-efficient (**)	Cdh	0. 97	-					
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 43	-	
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 43	-	
			•					
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	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 _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P _{T0}	0. 015	kW					
Standby mode	P _{SB}	0. 015	kW	Type of energy input		Electrical		
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA					
Annual energy consumption	Q _{HE}	5481	kWh					
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η wh	-	%	
Daily electricity consumption	Qelec	-	kWh					
Annual electricity consumption	AEC	-	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – I	Manisa, 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 / mediu	um-temperatu	ne section.	Manager, Quality Assuarance Department				
				TURKEY				
· Details and precautions on installation, maintena	ance and ass	embly can be	e 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.								

· 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-SHWM120VAA
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	117	%
Declared capacity for heating for 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 tem	perature Tj	
Tj = - 7 ° C	Pdh	7.3	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u>_</u>	
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u>_</u>	
Tj = + 7 ° C	Pdh	3.8	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	1. 55	-
Tj = operation limit temperature (***)	Pdh	8. 2	kW	Tj = operation limit temperature (***)	COPd	1. 54	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9.9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 55	-
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_{0FF}	0.015	kW	Rated heat output (*)	Psup	3.9	kW
Thermostat-off mode	P _{T0}	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	$Q_{\rm HE}$	9902	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	_	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
The identification and signature of the second structure of the second	ne person	empowered	to bind th	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
 Details and precautions on installation, maintena 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-SHWM120VAA
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	149	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	7.3	kW	Tj = - 7 ° C	COPd	3. 67	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u>.</u>	
Tj = + 2 ° C	Pdh	4. 5	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u>.</u>	
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 38	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.6	kW	Tj = +12 ° C	COPd	8. 02	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	2. 08	-
Tj = operation limit temperature (***)	Pdh	8. 7	kW	Tj = operation limit temperature (***)	COPd	1. 56	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 04	-
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 _{0FF}	0.015	kW	Rated heat output (*)	Psup	3. 4	kW
Thermostat-off mode	P _{T0}	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7843	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	k₩h				
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 – 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	male / medil	um-remperatu	Manager, Quality Assuarance Department TURKEY				
· Details and precautions on installation, maintena	ince and asso	embly can be	found in the				
· 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-SHWM120VAA
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

ed at j	12. 1 indoor - 12. 1 1. 00	kW kW - kW	Seasonal space heating energy efficiency Declared coefficient of performance or prim part load at indoor temperature 20 °C and Tj = -7 °C			~	
j	- - 12. 1	-	Declared coefficient of performance or prim part load at indoor temperature 20 °C and	outdoor ter	nperature Tj	i _	
	- 12. 1	-			-	i _	
	- 12. 1	-	Tj = -7 °C	COPd	-	-	
	12. 1						
		kW					
	1.00		Tj = + 2 ° C	COPd	2. 05	-	
		-					
	7.7	kW	Tj = + 7 ° C	COPd	3. 42	-	
	0. 99	-					
	5. 2	kW	Tj = +12 ° C	COPd	5.65	-	
ĺ	0. 98	-					
	12. 1	kW	Tj = bivalent temperature	COPd	2. 05	-	
ĺ	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 05	-	
· [2	°C	Operation limit temperature	TOL	-30	°C	
nh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
moo	de		Supplementary heater				
	0. 015	kW	Rated heat output (*)	Psup	0.0	kW	
	0.015	kW					
ĺ	0. 015	kW	Type of energy input		Electrical		
	0.000	kW					
			· · ·				
	variable		Rated air flow rate, outdoors	-	2640	m³/h	
	41 / 58	dBA					
	3952	kWh					
	-		Water heating energy efficiency	η wh	-	%	
C	-	kWh					
	-	kWh					
				u Bulvari No:	19 Yunusemre – I	Manisa, Turkey	
on e	empowered t	to bind the					
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department							
	c : ING TI mediu asse	0.98 12.1 12.1 12.1 12.1 w 2 mode 0.015 0.015 0.015 0.015 0.015 0.015 0.000 variable 41 / 58 3952 - c - c - ion empowered to nedium-temperatu assembly can be	0.98 - 12.1 kW 2 ° C amode C 0.015 kW 0.015 kW 0.015 kW 0.015 kW 0.000 kW variable 41 / 58 41 / 58 dBA 3952 kWh ING TURKEY JOINT STOCK COMPANY ion empowered to bind the nedium-temperature section.	0.98 - 12.1 kW 132.1 kW 14.1 5.1 15.1 kW 16.0 kW 17.1 kWh 17.1 kWh 18.1 flow rate, outdoors 19.2 kWh 10.15 kWh 10.000 kWh 11.1 kWh	0.98 - 12.1 kW 2 ° C Operation limit temperature TOL Heating water operating limit WTOL Supplementary heater Supplementary heater Rated heat output (*) Psup 0.015 kW 0.000 kW variable Rated air flow rate, outdoors - - - 41 / 58 dBA 3952 kWh - kWh - kWh - kWh - kWh - kWh - kWh -	0.98 - 12.1 KW 2 ° C operation limit temperature TOL - C - C - Rated heat output (*) Psup 0.0 - KW - Rated air flow rate, outdoors - 2640 - KWh - KWh - KWh - KWh - KWh - Kenichi SAITO	

 \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-SHWM120VAA
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Sy		Symbol	Valu	е	Unit		
		ηs	232		%		
primary	rimary	ry energy	y ratio fo	or			
and outd	nd out	utdoor te	emperature	e Tj			
(COPd	-		-		
(COPd	3. 30		-		
(COPd	5. 32		-		
(COPd	7.46		-		
(COPd	3.30		-		
**) ()	COPd	3.30		-		
		TOL	-30		°C		
V		WTOL	60		°C		
F		Psup	0.0		kW		
			Electri	cal			
		-	2640		m³/h		
		η wh	-		%		
Zorlu Bul	Zorlu B	Bulvari No:	o:19 Yunusem	re – Mani	isa, Turkey		
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY							

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM120VAA
	Indoor unit:	ERSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	138	%	
Declared capacity for heating for part	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 °C and	outdoor te	mperature Tj		
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 13	-	
Degradation co-efficient (**)	Cdh	1.00	-					
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-	
Degradation co-efficient (**)	Cdh	0. 99	-					
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4. 75	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = +12 ° C	Pdh	3. 8	kW	Tj = +12 ° C	COPd	6. 32	-	
Degradation co-efficient (**)	Cdh	0. 98	-					
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	1. 78	-	
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	1. 78	-	
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	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 _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P _{T0}	0.015	kW					
Standby mode	P _{SB}	0. 015	kW	Type of energy input		Electrical		
Crankcase heater mode	Рск	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA					
Annual energy consumption	Q_{HE}	7114	kWh					
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η wh	-	%	
Daily electricity consumption	Qelec	_	kWh					
Annual electricity consumption	AEC	-	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 state of	The identification and signature of the person empowered to bind the supplier:							
百藤建一				Kenichi SAITO Manager, Quality Assuarance Department				
				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 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-SHWM120VAA
	Indoor unit:	ERSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	181	%
t load at	indoor			nary energy	ratio for	
ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 85	-
Cdh	1.00	-				
Pdh	6. 5	kW	Tj = + 2 ° C	COPd	4. 53	-
Cdh	0. 99	-				
Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6. 04	-
Cdh	0. 98	-				
Pdh	4.0	kW	Tj = +12 ° C	COPd	7. 02	-
Cdh	0.97	-				
Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 43	-
Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 43	-
		•				
Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0. 015	kW				
P _{SB}	0. 015	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2640	m³/h
L _{WA}	41 / 58	dBA				
Q _{HE}	5426	kWh				
	-		Water heating energy efficiency	η wh	-	%
Qelec	-	kWh				
AEC	-	kWh				
ANUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
ne person	empowered	to bind the				
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department						
	Prated t load at ture T j Pdh Cdh Cdh Cdh Pdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh C	Prated 12.1 t load at indoor ture T j Pdh Pdh 10.7 Cdh 1.00 Pdh 6.5 Cdh 0.99 Pdh 5.2 Cdh 0.99 Pdh 5.2 Cdh 0.98 Pdh 4.0 Cdh 0.97 Pdh 12.1 Tbiv -10 active mode POFF POFF 0.015 PsB 0.015 PcK 0.000 variable LWA LWA 41 / 58 QHE 5426 - Qelec - AEC - NUFACTURING TURKEY JOINT S ne person empowered market	Prated 12.1 kW t load at indoor ture T j Pdh 10.7 kW Cdh 1.00 - Pdh 6.5 kW Cdh 0.99 - Pdh 5.2 kW Cdh 0.99 - Pdh 5.2 kW Cdh 0.99 - Pdh 5.2 kW Cdh 0.99 - Pdh 12.1 kW Cdh 0.97 - Pdh 12.1 kW Tbiv -10 ° C Tdesignh -10 ° C active mode - - PorF 0.015 kW Pga 0.015 kW Pox 0.000 kW Pox 0.000 kW Pox 0.000 kWh Qelec - kWh AEC -	Prated12.1KWL load at indoorenergy efficiencyture T jpdh10.7kWCdh1.00-Pdh6.5kWTj = -7 ° CCdh0.99Pdh5.2kWTj = +7 ° CCdh0.98Pdh4.0kWTj = +12 ° CCdh0.97Pdh12.1kWTj = operation limit temperaturePdh12.1kWTj = operation limit temperaturePdh12.1kWSuplementary heaterTbiv-10° COperation limit temperatureTbiv-10° CSuplementary heaterPorr0.015kWType of energy inputPorr0.015kWType of energy inputPorr0.000kWWater heating energy efficiencyQelec-kWhManisa OSB 4.Kisim Kecilikoyob Meh. Amet Nazif ZorNUFACTURING TURKEY JOINT STOCK COMPANYManisa OSB 4.Kisim Kecilikoyob Meh. Amet Nazif Zorte person empowered to bind the supplier: Kenichi SAITOKated heat culture:	Prated12.1kWSeasonal space heating energy efficiency 7 s Prated12.1kWSeasonal space heating energy efficiency 7 s beclared coefficient of performance or primary energy part load at indoor temperature 20 ° C and outdoor temPdh10.7KWCdh1.00-Pdh6.5KWCdh0.99-Pdh5.2KWCdh0.98-Pdh5.2KWCdh0.97-Pdh12.1KWPdh12.1KWPdh12.1KWPdh12.1KWPdh12.1KWPdh12.1KWPdr0.015KWPorr0.015KWPorr0.015KWPox0.000KWPox0.000KWPox0.000KWPox0.000KWPox0.000KWPox0.000KWNUFACTURING TURKEY JOINT STOX COMPANYManisa 058 4.Kisin Kecilikoyob Mah. Amet Mazif Zarlu Bulvari Mo:NUFACTURING TURKEY JOINT STOX COMPANYManisa 058 4.Kisin Kecilikoyob Mah. Amet Mazif Zarlu Bulvari Mo:NUFACTURING TURKEY JOINT STOX COMPANYManisa 058 4.Kisin Kecilikoyob Mah. Amet Mazif Zarlu Bulvari Mo:NUFACTURING TURKEY JOINT STOX COMPANYManisa 058 4.Kisin Kecilikoyob Mah. Amet Mazif Zarlu Bulvari Mo:re person empowered to bind the supplier: Kenichi SAITOManager, Quality Assuarance Department <td>Prated 12.1 KW Prated 12.1 KW Load at indoor Declared coefficiency 7 s Dure T j Pdh 10.7 KW Pdh 10.7 KW Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj Pdh 6.5 KW Tj = -7 ° C COPd 2.85 Cdh 0.99 - Tj = + 2 ° C COPd 6.04 Odh 0.98 - Tj = + 7 ° C COPd 6.04 Odh 0.98 - Tj = + 12 ° C COPd 6.04 Odh 0.98 - Tj = + 12 ° C COPd 2.43 Odh 0.97 - Tj = operation limit temperature COPd 2.43 Tbiv -10 ° C Operation limit temperature ToL -30 Heating water operating limit WTOL 60 5uplementary heater Electrical Por 0.015 KW Ype of energy input Electrical 2640 Law, 41 / 58 dBA ABA</td>	Prated 12.1 KW Prated 12.1 KW Load at indoor Declared coefficiency 7 s Dure T j Pdh 10.7 KW Pdh 10.7 KW Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj Pdh 6.5 KW Tj = -7 ° C COPd 2.85 Cdh 0.99 - Tj = + 2 ° C COPd 6.04 Odh 0.98 - Tj = + 7 ° C COPd 6.04 Odh 0.98 - Tj = + 12 ° C COPd 6.04 Odh 0.98 - Tj = + 12 ° C COPd 2.43 Odh 0.97 - Tj = operation limit temperature COPd 2.43 Tbiv -10 ° C Operation limit temperature ToL -30 Heating water operating limit WTOL 60 5uplementary heater Electrical Por 0.015 KW Ype of energy input Electrical 2640 Law, 41 / 58 dBA ABA

· 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-SHWM120VAA
	Indoor unit:	ERSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	118	%
Declared capacity for heating for part	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 tem	nperature Tj	
Tj = - 7 ° C	Pdh	7.3	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	3. 8	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	1.55	-
Tj = operation limit temperature (***)	Pdh	8. 2	kW	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.55	-
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 _{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 9	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	9869	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	_	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	he person	empowered	to bind the				
The signature is signed in the average climate / medium-temperature section. The signature is signed in the average climate / medium-temperature section. 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-SHWM120VAA
	Indoor unit:	ERSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	150	%	
Declared capacity for heating for part	: load at	indoor		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	7.3	kW	Tj = - 7 ° C	COPd	3. 67	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 2 ° C	Pdh	4.5	kW	Tj = + 2 ° C	COPd	4. 30	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 ° C	Pdh	3.9	kW	Tj = + 7 ° C	COPd	5. 38	-	
Degradation co-efficient (**)	Cdh	0. 98	-					
Tj = +12 ° C	Pdh	4.6	kW	Tj = +12 ° C	COPd	8. 02	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	2. 08	-	
Tj = operation limit temperature (***)	Pdh	8. 7	kW	Tj = operation limit temperature (***)	COPd	1.56	-	
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 04	-	
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 _{0FF}	0.015	kW	Rated heat output (*)	Psup	3. 4	kW	
Thermostat-off mode	P _{T0}	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	-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA					
Annual energy consumption	\mathbf{Q}_{HE}	7810	k₩h					
For heat pump combination heater:								
Declared load profile		-		Water heating energy efficiency	η wh	-	%	
Daily electricity consumption	Qelec	-	k₩h					
Annual electricity consumption	AEC	-	k₩h					
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 – 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 installation, maintenance and assembly 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-SHWM120VAA
	Indoor unit:	ERSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

					-	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	163	%
Declared capacity for heating for par	t load at	indoor		Declared coefficient of performance or prim	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	i
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	2.05	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3. 42	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	5. 2	kW	Tj = +12 ° C	COPd	5.65	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{T0}	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	3886	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS M				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - I	Manisa, Turkey
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The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
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-SHWM120VAA
	Indoor unit:	ERSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	238	%
Declared capacity for heating for part	load at	indoor	•	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	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	_				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5. 32	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	3. 30	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	3. 30	-
			-				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{T0}	0. 015	kW				
Standby mode	P _{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	2687	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	_	kWh				
Contact details							
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TURKEY							
· Details and precautions on installation, maintena	ince and ass	embly can be	e found in the	installation and or operation manuals.			
· Details and precautions on recycling and/or dis	posal at end-	of-life 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-SHWM120VAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	136	%
Declared capacity for heating for part	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 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 13	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6. 32	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	1. 78	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	1. 78	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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_{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	7169	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	k₩h				
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 the	ne person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤建一				Manager, Quality Assuarance Department			
FT FICE D+				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-SHWM120VAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	179	%
Declared capacity for heating for part	: load at	indoor	•	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 ter	nperature T <u></u>	i
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2.85	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4. 53	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6.04	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u></u>	
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7. 02	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 43	_
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 43	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		I	
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P _{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	5481	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
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The signature is signed in the average cli	mate / mediu	ım-temperatı	ure section	Kenichi SAITO Manager, Quality Assuarance Department			
TURKEY							
· Details and precautions on installation, maintena	nce and ass	embly can be	e found in the	installation and or operation manuals.			
· Details and precautions on recycling and/or dis	oosal at end-	of-life can be	e 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-SHWM120VAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	117	%
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	7.3	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	3.8	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	1.55	-
Tj = operation limit temperature (***)	Pdh	8. 2	kW	Tj = operation limit temperature (***)	COPd	1. 54	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 $^{\circ}$ C (if TOL < - 20 $^{\circ}$ C)	COPd	1.55	-
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 _{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 9	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	9902	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	lanisa, Turkey
The identification and signature of the	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, maintenance and assembly 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-SHWM120VAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	149	%
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	7.3	kW	Tj = - 7 ° C	COPd	3. 67	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4. 5	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 38	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.6	kW	Tj = +12 ° C	COPd	8. 02	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	2. 08	-
Tj = operation limit temperature (***)	Pdh	8. 7	kW	Tj = operation limit temperature (***)	COPd	1.56	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 04	-
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_{0FF}	0.015	kW	Rated heat output (*)	Psup	3. 4	kW
Thermostat-off mode	P _{T0}	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	7843	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey							
The identification and signature of the person empowered to bind the supplier:							
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 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-SHWM120VAA	
	Indoor unit:	EHSD-MED	
Air-to-water heat pump:		yes	
Water-to-water heat pump:		no	
Brine-to-water heat pump:		no	
Low-temperature heat pump:		no	
Equipped with a supplementary heater:		no	
Heat pump combination heater:		no	
Parameters for		medium-temperature application.	
Parameters for		warmer climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	161	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	2. 05	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3. 42	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	5. 2	kW	Tj = +12 ° C	COPd	5.65	-
Degradation co-efficient $(**)$	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{T0}	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	$Q_{\rm HE}$	3952	kWh				
For heat pump combination heater:							
Declared load profile		-	-	Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey							anisa, Turkey
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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-SHWM120VAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	232	%
Declared capacity for heating for part	load at	indoor		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 ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	3.30	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5. 32	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	3. 30	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	3.30	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	2753	kWh				
For heat pump combination heater:				-			
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details				· ·			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey							anisa, Turkey
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Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department							
TURKEY							
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Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.							

(*) 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-SHWM120VAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	138	%
Declared capacity for heating for part	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 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 13	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	3. 8	kW	Tj = +12 ° C	COPd	6. 32	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	1. 78	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	1. 78	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	7114	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	_	kWh				
Annual electricity consumption	AEC	-	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			
				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 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-SHWM120VAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

The identification and signature of the person empowered to bind the supplier;	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Declared capacity for heating for part load at indoor Declared coefficient of performance or primary energy ratio for Tip = 7 ° C Pdh 10.7 WH Tj = -7 ° C Pdh 10.7 WH Degradation co-efficient (**) Cdh 1.00 - Tj = +2 ° C Pdh 6.5 WH Tj = +2 ° C OOPd 2.85 Degradation co-efficient (**) Cdh 0.99 - Tj = +2 ° C OOPd 4.53 Degradation co-efficient (**) Cdh 0.99 - Tj = +7 ° C OOPd 6.04 Degradation co-efficient (**) Cdh 0.99 - Tj = +7 ° C OOPd 6.04 Tj = +12 ° C Pdh 12.1 KW Tj = +12 ° C OOPd 2.43 Tj = bivalent temperature Pdh 12.1 KW Tj = operation limit temperature TOL -30 Power consumption in modes other than active mode To ' C Operation limit temperature TOL -30 Off mode Par 0.015 KW Rated aler flow rate, outdoors - 2040 Crankcase heater mode	Rated heat output (*)	Prated	12. 1	kW		η s	181	%
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Declared capacity for heating for part	load at	indoor	•		mary energy	ratio for	
Degradation trj = + 2 ° CCdh1.00 6.5- KWTj = + 2 ° CCOPd4.53Degradation trj = + 7 ° CPdh6.5KWTj = + 7 ° CCOPd6.04Degradation to co-efficient (**)Cdh0.99Tj = + 7 ° CCOPd6.04Degradation to co-efficient (**)Cdh0.98-Tj = + 7 ° CCOPd6.04Degradation to co-efficient (**)Cdh0.97Tj = + 12 ° CCOPd7.02Tj = bivalent temperature trj = peration limit temperaturePdh12.1KWTj = operation limit temperature (***)COPd2.43Bivalent temperature heatingToiv-10 to egradation to operation limit temperature (***)ODdOff mode transitingPar0.015KWRated heat output (*)Paup0.0Other transitingPag0.015KWType of energy inputElectricalOther transitionCapacity control Sound power level, indoors/outdoors Annual energy consumptionLas 41 / 58dBA 4KHAnnual energy consumption Daily electricity consumption Annual electricity consumption Annual electricity consumption Annual electricity consumption AEC Daily electricity consumption AEC-KWh Annual electricity consumption AEC-MITSBEISH KERRON ALCONTONING SYSTEMS MANE/ACTURING TUKEY JOINT STOCK COMPANYMater dog 4.Kiein Keeli Hoyob Mah. Amet May!? Zoru Bulveri Mc:19 Yunasere - Man The identification and signature of the person empowered to bin	temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature T	j
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2.85	-
Degradation co-efficient (**) Odh 0.99 - Tj = +7 ° C Pdh 5.2 NN Degradation co-efficient (**) Odh 0.98 - Tj = +12 ° C Pdh 4.0 NN Degradation co-efficient (**) Odh 0.97 - Tj = bivalent temperature Pdh 12.1 NN Tj = operation limit temperature OOPd 2.43 Tj = operation limit temperature (***) Pdh 12.1 NN Tj = operation limit temperature (***) OOPd 2.43 Bivalent temperature design conditions for space Tdesign -10 * C C Pearing water operating limit temperature TOL -30 Power consumption in modes other than active mode Off mode Porr 0.015 NN Pupe of energy input Electrical Other items Cankcase heater mode Por 0.015 NN Pupe of energy input Electrical Capacity control variable S426 NN Por 2640 Sound power level, indoors/outdoors L _{MA} 41 / 58 dBA Annual energy consumption - 2640	Degradation co-efficient (**)	Cdh	1.00	-				
Tj = +7 ° CPdh5.2KWDegradation co-efficient (**)Cdh 0.98 -Tj = +12 ° CPdh4.0KWDegradation co-efficient (**)Cdh 0.97 -Tj = bivalent temperaturePdh12.1KWTj = operation limit temperature (***)Pdh12.1Bivalent temperature (***)Pdh12.1Bivalent temperature (***)Pdh12.1Bivalent temperature (***)Pdh12.1Bivalent temperature (***)Pdh12.1Bivalent temperature (***)Pdh12.1Bivalent temperature (***)Doperation limit temperature (***)OOPdPower consumution in modes other than active modeOperation limit temperature (***)OODOff modePar0.015KWThermostat-off modePar0.015KWCrankcase heater modePar0.015KWObter itemsCapacity controlVariableSound power level, indors/outdoorsLax41 / 58Annual energy consumptionQelec-Delared load profile-Delared load profile-Delared load profile-MITSBEISH EXTRONTIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANYMITSBEISH CARCOUNTIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANYThe identification and signature of the person empowered to bind the supplier:	Tj = + 2 ° C	Pdh	6. 5	kW	Tj = + 2 ° C	COPd	4. 53	-
Degradation co-efficient (**) Cdh 0.98 - Tj = +12 ° C Pdh 4.0 KW Degradation co-efficient (**) Cdh 0.97 - Tj = bivalent temperature Pdh 12.1 KW Tj = operation limit temperature (***) Pdh 12.1 KW Bivalent temperature (***) Tbiv -10 ° C Reference design conditions for space Tdesignh -10 ° C Power consumption in modes other than active mode Supplementary heater Supplementary heater Off mode Porf 0.015 KW Type of energy input Electrical Crankcase heater mode Pox 0.000 KW Other items -	Degradation co-efficient (**)	Cdh	0. 99	-				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6. 04	-
Degradation co-efficient (**) Cdh 0.97 - Tj = bivalent temperature Pdh 12.1 kW Tj = operation limit temperature (***) Pdh 12.1 kW Bivalent temperature for space Tbiv -10 ° C Reference design conditions for space Tbiv -10 ° C -10 ° C -10 ° C Power consumption in modes other than active mode Operation limit temperature TOL -30 Off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode Por 0.015 kW Rated heat output (*) Psup 0.0 Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Gapacity control variable Stadb Af1 / 58 dBA Annual energy consumption - 2640 Sound power level, indoors/outdoors Lm 41 / 58 dBA Annual energy consumption - 2640 For heat pump combination heater: Declared load profile - - -	Degradation co-efficient (**)	Cdh	0. 98	-			,	-
Tj = bivalent temperature Pdh 12.1 kW Tj = operation limit temperature (***) Pdh 12.1 kW Bivalent temperature (***) Tbiv -10 C Reference design conditions for space heating To tesignh -10 C Power consumption in modes other than active mode Operation limit temperature TOL -30 Off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode Porr 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Gapacity control variable Stad26 kWh Port -2640 Sound power level, indoors/outdoors L _{MA} 41 / 58 dBA Annual energy consumption Qelec - Annual energy consumption Qelec - kWh Annual electricity consumption Qelec - MitsuBist LECTRIO ALR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Kenisa OS8 4.Kiem Kecilikoyosb Meh. Amet Mazif Zerlu Bulvari No.19 Yunusemer - Mani The identification and signature of the per	Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7. 02	-
Tj = operation limit temperature (****) Pdh 12.1 kW Tj = operation limit temperature (****) OOPd 2.43 Bivalent temperature medesign conditions for space Toiv -10 ° C Operation limit temperature TOL -30 Power consumption in modes other than active mode 0 0.015 kW Rated heat output (*) Psup 0.0 Off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode Porr 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items Capacity control variable Stadb Aft / 58 dBA Sound power level, indoors/outdoors L _{MA} 41 / 58 dBA Aft Aft For heat pump combination heater: Declared load profile - Water heating energy efficiency 7 wh - Daily electricity consumption Qelec - kWh Maise 088 4.Kisin Kecilikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yunuserre - Mani MITSUBISHI ELECIRIC AIR CONDITIONING SYSTEMS MANUFACTURING	Degradation co-efficient (**)	Cdh	0.97	-				-
Bivalent temperature Tbiv -10 ° C Operation limit temperature TOL -30 Reference design conditions for space Tdesignh -10 ° C Heating water operating limit WTOL 60 Power consumption in modes other than active mode Supplementary heater Supplementary heater 00	Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 43	-
Reference design conditions for space heating Tdesignh -10 • C Heating water operating limit temperature WTOL 60 Power consumption in modes other than active mode Supplementary heater Supplementary heater Supplementary heater Off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode P10 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2640 Sound power level, indoors/outdoors L _{NA} 41 / 58 dBA Annual energy consumption - 2640 For heat pump combination heater: Declared load profile - Water heating energy efficiency η wh - Daily electricity consumption AEC - kWh Annual electricity consumption AEC - kWh MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0S8 4. Kisim Kecilikoyosh Mah, Amet Nazif Zorlu Bulvari No:19 Yunuseme - Mani The identificat	Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 43	-
Reference design conditions for space heating Tdesignh -10 • C Heating water operating limit temperature WTOL 60 Power consumption in modes other than active mode Supplementary heater Supplementary heater Supplementary heater Off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode P10 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2640 Sound power level, indoors/outdoors L _{NA} 41 / 58 dBA Annual energy consumption - 2640 For heat pump combination heater: Declared load profile - Water heating energy efficiency η wh - Daily electricity consumption AEC - kWh Annual electricity consumption AEC - kWh MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0S8 4. Kisim Kecilikoyosh Mah, Amet Nazif Zorlu Bulvari No:19 Yunuseme - Mani The identificat				-				-
heating -10 C temperature will out out Power consumption in modes other than active mode Supplementary heater Supplementary heater Supplementary heater Off mode Porf 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode Pro 0.015 kW Type of energy input Electrical Crankcase heater mode Por 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2640 Sound power level, indoors/outdoors L _{WA} 41 / 58 dBA - 2640 For heat pump combination heater: Declared load profile - - KWh - Daily electricity consumption Qelec - kWh - - Marisa 0SB 4.Kisim Kecilikoyosb Mah. Amet Nazif Zorlu Bulvari No:19 Yunusemer - Manisa MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4.Kisim Kecilikoyosb Mah. Amet Nazif Zorlu Bulvari No:19 Yunusemer - Manisa The identification and signature of the person empowered to bind the supplier: - Manisa 0SB 4.	Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Power consumption in modes other than active mode Supplementary heater Off mode PorF 0.015 kW Thermostat-off mode Pro 0.015 kW Standby mode PsB 0.015 kW Standby mode PsB 0.015 kW Grankcase heater mode PorK 0.000 kW Other items Capacity control variable Pate Pate Sound power level, indoors/outdoors LWA 41 / 58 dBA Annual energy consumption QhE 5426 For heat pump combination heater: Declared load profile - KWh Water heating energy efficiency nwh - Daily electricity consumption AEC - kWh Manisa 0SB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa 0SB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa The identification and signature of the person empowered to bind the supplier: Manisa 0SB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa		Tdes i gnh	-10	°C		WTOL	60	°C
Thermostat-off mode PT0 0.015 kW Standby mode PS8 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items 0.000 kW Rated air flow rate, outdoors - 2640 Sound power level, indoors/outdoors LWA 41 / 58 dBA - 2640 Sound power level, indoors/outdoors LWA 41 / 58 dBA - 2640 For heat pump combination heater: Declared load profile - - KWh - Daily electricity consumption Qelec - kWh - - - Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: - - -	· · · · · · · · · · · · · · · · · · ·	active mo	de				1	
Standby mode PSB 0.015 kW Type of energy input Electrical Crankcase heater mode Pck 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2640 Sound power level, indoors/outdoors L _{HA} 41 / 58 dBA - 2640 Sound power level, onsumption Q _{HE} 5426 kWh - 2640 For heat pump combination heater: Declared load profile - - Water heating energy efficiency η wh - Daily electricity consumption Qelec - kWh - - Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: - - -	Off mode	P _{0FF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Crankcase heater mode P _{OK} 0.000 kW Other items Other items Capacity control variable Rated air flow rate, outdoors - 2640 Sound power level, indoors/outdoors L _{WA} 41 / 58 dBA Annual energy consumption - 2640 For heat pump combination heater: Declared load profile - - Water heating energy efficiency η wh - Daily electricity consumption Qelec - kWh - - Contact details MITSUBISHI ELECIRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: - -	Thermostat-off mode	P _{T0}	0.015	kW				
Other items Capacity control variable Sound power level, indoors/outdoors L _{WA} 41 / 58 dBA Annual energy consumption Q _{HE} 5426 kWh For heat pump combination heater: Declared load profile - Daily electricity consumption Qelec Annual electricity consumption AEC MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: Contact the supplier:	Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Capacity control variable Rated air flow rate, outdoors 2640 Sound power level, indoors/outdoors L _{WA} 41 / 58 dBA Annual energy consumption Q _{HE} 5426 kWh - 2640 For heat pump combination heater:	Crankcase heater mode	Рск	0.000	kW				
Capacity control Variable Sound power level, indoors/outdoors L _{WA} 41 / 58 dBA Annual energy consumption Q _{HE} 5426 kWh For heat pump combination heater: Declared load profile -	Other items							
Annual energy consumption Q _{HE} 5426 kWh For heat pump combination heater:	Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
In the second s	Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Declared load profile - Water heating energy efficiency η wh - Daily electricity consumption Qelec - kWh - <td>Annual energy consumption</td> <td>Q_{HE}</td> <td>5426</td> <td>kWh</td> <td></td> <td></td> <td></td> <td></td>	Annual energy consumption	Q_{HE}	5426	kWh				
Daily electricity consumption Qelec - kWh Annual electricity consumption AEC - kWh Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier; Store of the person empowered to bind the supplier;	For heat pump combination heater:							
Annual electricity consumption AEC - kWh Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa The identification and signature of the person empowered to bind the supplier;	Declared load profile		-		Water heating energy efficiency	η wh	-	%
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier; Supplier;	Daily electricity consumption	Qelec	-	kWh				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosh Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier; Supplier;	Annual electricity consumption	AEC	-	kWh				
The identification and signature of the person empowered to bind the supplier;								
								Manisa, Turkey
Kenichi SAITO	ine identification and signature of th	e person	empowered	to bind the				
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. 	•		•					

· 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-SHWM120VAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	118	%
Declared capacity for heating for par	t load at	indoor	Declared coefficient of performance or prim	nary energy	ratio for		
temperature 20 $^\circ$ C and outdoor temperature	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	7.3	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	3.8	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	1. 55	-
Tj = operation limit temperature (***)	Pdh	8. 2	kW	Tj = operation limit temperature (***)	COPd	1. 54	-
Tj = - 15 $^{\circ}$ C (if TOL < - 20 $^{\circ}$ C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 55	-
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 _{0FF}	0. 015	kW	Rated heat output (*)	Psup	3.9	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	9869	kWh				
For heat pump combination heater:				·			
Declared load profile		_		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey							
The identification and signature of the person empowered to bind the supplier:							
Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department							
TURKEY							
Details and precautions on installation, maintenance and assembly 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-SHWM120VAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	150	%
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 ten	nperature Tj	
Tj = - 7 ° C	Pdh	7.3	kW	Tj = - 7 ° C	COPd	3. 67	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4. 5	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 38	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.6	kW	Tj = +12 ° C	COPd	8. 02	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	2. 08	-
Tj = operation limit temperature (***)	Pdh	8. 7	kW	Tj = operation limit temperature (***)	COPd	1.56	-
Tj = -15 ° C (if TOL < -20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 04	-
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 _{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 4	kW
Thermostat-off mode	P _{T0}	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	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	7810	kWh				
For heat pump combination heater:							
Declared load profile		_		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	k₩h				
Annual electricity consumption	AEC	-	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	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
	mare / medit			TURKEY			
Details and precautions on installation, maintena	nee and acc	mbly can be	forward 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-SHWM120VAA	
	Indoor unit:	ERSD-MED	
Air-to-water heat pump:		yes	
Water-to-water heat pump:		no	
Brine-to-water heat pump:		no	
Low-temperature heat pump:		no	
Equipped with a supplementary heater:		no	
Heat pump combination heater:		no	
Parameters for		medium-temperature application.	
Parameters for		warmer climate conditions.	

Prated	12. 1	LW	Seasonal space heating			
		kW	energy efficiency	ηs	163	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
e Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	12. 1	kW	Tj = + 2 ° C	COPd	2. 05	-
Cdh	1.00	-				
Pdh	7.7	kW	Tj = + 7 ° C	COPd	3. 42	-
Cdh	0. 99	-				
Pdh	5. 2	kW	Tj = +12 ° C	COPd	5.65	-
Cdh	0. 98	-				
Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
ldes i gnh	2	°C	Heating water operating limit	WTOL	60	°C
ctive mo	de		Supplementary heater		11	
P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0.015	kW			• • •	
P _{SB}	0. 015	kW	Type of energy input		Electrical	
Рск	0.000	kW				
		L	•			
	variable		Rated air flow rate, outdoors	-	2640	m³/h
L _{WA}	41 / 58	dBA				
Q _{HE}	3886	k₩h				
		·	-			
	-		Water heating energy efficiency	η wh	-	%
Qelec	-	k₩h				
AEC	-	k₩h				
FACTURING T	JRKEY JOINT ST	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No∷	19 Yunusemre – Ma	anisa, Turkey
person	empowered t	to bind the				
te / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
	Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh Pdh Pdh Tbiv Cdesignh Ctive moo PoFF PTO PSB POK PoFF PTO PSB POK Cdesignh Ctive moo PoFF PTO PSB POK Cdesignh Cdh Pdh Cdh PoFF PTO PSB POK Cdh PoFF PTO PSB PCK Cdh Cdh PoFF PTO Cdh Cdh PoFF PTO Cdh Cdh PoFF PTO PSB PCK Cdh Cdh PoFF PTO PSB PCK Cdh Pdh Cdh Pdh Cdh PoFF PTO PSB PCK Cdh Cdh Pdh Cdh PoFF PTO PSB PCK Cdh Cdh Pdh Cdh PoFF PTO PSB PCK Cdh Cdh Pdh Cdh PoFF PTO Cdh Cdh PCK Cdh Cdh PoFF PTO Cdh Cdh PCK PCK Cdh Cdh PCK PCK Cdh Cdh PCK PCK Cdh Cdh PCK PCK Cdh Cdh PCK PCK Cdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh	Cdh - Pdh 12.1 Cdh 1.00 Pdh 7.7 Cdh 0.99 Pdh 5.2 Cdh 0.98 Pdh 12.1 Pdh 0.015 Pcr 0.015 Pcg 0.015 Pcg 0.000 Variable LWA LWA 41 / 58 QHE 3886 - - Qelec - AEC - AEC - AE - and assembly can be	Cdh - - Pdh 12.1 kW Cdh 1.00 - Pdh 7.7 kW Cdh 0.99 - Pdh 5.2 kW Cdh 0.99 - Pdh 5.2 kW Cdh 0.98 - Pdh 12.1 kW Pdh 12.1 kW Tbiv 2 ° C ctive mode - C PoFF 0.015 kW PoFF 0.015 kW PcK 0.000 kW Variable - - LwA 41 / 58 dBA QHE 3886 kWh AEC - kWh AEC - kWh AEC - kWh AEC - kWh ce / medium-temperature section. - and assembly can be found in the - <td>CdhPdh12.1KWCdh1.00-Pdh7.7KWTj = + 7° CCdh0.99-Pdh5.2KWTbiv2° CPdh12.1KWPdh12.1KWTbiv2° CCdsignh2° CCtive modeSupplementary heaterPorr0.015KWPro0.015KWPox0.000KWPox0.000KWPox3886kWhActoring Turkey Joint Stock ComPANYManisa 0SB 4. Kisim Kecilikoyesb Mah. Atmet Nazif Zorperson empowered to bind the supplier: Kenichi SAITOKisim Kecilikoyesb Mah. Atmet Nazif Zor</td> <td>CdhPdh12.1kWCdh1.00-Pdh7.7kWCdh0.99-Pdh5.2kWCdh0.98-Pdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPorr0.015kWPorr0.015kWPorr0.015kWPox0.000kWPox3886kWhPox3886kWhCurve iable-Curve iable-Curve iable-Variable-Curve iable-Curve iable-<tr< td=""><td>OdhPdh12.1kWTj = + 2 ° C$OOPd$2.05Cdh1.00Pdh7.7kWTj = + 7 ° C$OOPd$3.42Cdh0.99Pdh5.2kWTj = + 12 ° C$OOPd$2.05Cdh0.98Pdh12.1kWTj = bivalent temperature$OOPd$2.05Tbiv2° COperation limit temperatureTOL-30designh2° COperation limit temperatureTOL-30designh2° CSupplementary heaterPor0.015kWRated heat output (*)Psup0.0Por0.015kWType of energy inputElectricalPox0.000kWVariable-2640Law41 / 58dBAQelec-kWhKenichi SAITO-AEC-kWhKenichi SAITOKenichi SAITOre / medium-temperature section.Manisa 088 4 Kisim Kecilikoyosh Mah. Amet Mazif Zorlu Bulvari No:19 Yunuseme - Moperson empowered to bind the supplier: Kenichi SAITOManisa 088 4 Kisim Kecilikoyosh Mah. Amet Mazif Zorlu Bulvari No:19 Yunuseme - Moperson empowered to bind the supplier: Kenichi SAITOManisa 088 4 Kisim Kecilikoyosh Mah. Amet Mazif Zorlu Bulvari No:19 Yunuseme - Moperson empowered to bind the isotalalon and or operation manuals</td></tr<></td>	CdhPdh12.1KWCdh1.00-Pdh7.7KWTj = + 7° CCdh0.99-Pdh5.2KWTbiv2° CPdh12.1KWPdh12.1KWTbiv2° CCdsignh2° CCtive modeSupplementary heaterPorr0.015KWPro0.015KWPox0.000KWPox0.000KWPox3886kWhActoring Turkey Joint Stock ComPANYManisa 0SB 4. Kisim Kecilikoyesb Mah. Atmet Nazif Zorperson empowered to bind the supplier: Kenichi SAITOKisim Kecilikoyesb Mah. Atmet Nazif Zor	CdhPdh12.1kWCdh1.00-Pdh7.7kWCdh0.99-Pdh5.2kWCdh0.98-Pdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPdh12.1kWPorr0.015kWPorr0.015kWPorr0.015kWPox0.000kWPox3886kWhPox3886kWhCurve iable-Curve iable-Curve iable-Variable-Curve iable-Curve iable- <tr< td=""><td>OdhPdh12.1kWTj = + 2 ° C$OOPd$2.05Cdh1.00Pdh7.7kWTj = + 7 ° C$OOPd$3.42Cdh0.99Pdh5.2kWTj = + 12 ° C$OOPd$2.05Cdh0.98Pdh12.1kWTj = bivalent temperature$OOPd$2.05Tbiv2° COperation limit temperatureTOL-30designh2° COperation limit temperatureTOL-30designh2° CSupplementary heaterPor0.015kWRated heat output (*)Psup0.0Por0.015kWType of energy inputElectricalPox0.000kWVariable-2640Law41 / 58dBAQelec-kWhKenichi SAITO-AEC-kWhKenichi SAITOKenichi SAITOre / medium-temperature section.Manisa 088 4 Kisim Kecilikoyosh Mah. Amet Mazif Zorlu Bulvari No:19 Yunuseme - Moperson empowered to bind the supplier: Kenichi SAITOManisa 088 4 Kisim Kecilikoyosh Mah. 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 \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-SHWM120VAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	η s	238	%
Declared capacity for heating for part	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 ten	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5. 32	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	3. 30	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	3. 30	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	2687	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
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	ne person	empowered t	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
	mate / meult	an comperatu		TURKEY			
· Details and precautions on installation, maintena	nee and acc	ambly and ha	forward 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.