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MITSUBISHI ELECTRIC

Indoor unit E*ST20D-****D
Outdoor unit PUD-SHWM120YAA(-BS)

A+++
A++
A+
A
B
C
D

A++

A+
A
B
C
D
E
F

A+

41 dB

60 dB

12 kW
12 kW
12 kW

2019

811/2013

BH79V003H14

MITSUBISHI ELECTRIC

PRODUCT FICHE

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

1.SPACE HEATER

		For medium-temperature application													For low-temperature application												
1	2	3	6	8	11	9	13	15	16	21	22	17	18	25	4	6	8	11	9	13	15	16	21	22	17	18	25
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L_{WA} indoor	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	Sound power level L_{WA} outdoor	Low-temperature application	Seasonal space heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L_{WA} indoor	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	Sound power level L_{WA} outdoor
				kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB			kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB
PUD-SWM60VAA(-BS)	EHSD-****D	✓	A++	6	130	3722	41	6	6	109	148	5284	2120	55	✓	A+++	6	175	2780	41	6	6	133	205	4347	1543	55
	ERSD-****D	✓	A++	6	130	3722	41	6	6	109	148	5284	2120	55	✓	A+++	6	175	2780	41	6	6	133	205	4347	1543	55
PUD-SWM80VAA(-BS)	EHSD-****D	✓	A++	8	131	4929	41	8	8	110	161	7003	2604	56	✓	A+++	8	178	3646	41	8	8	139	218	5544	1932	56
	ERSD-****D	✓	A++	8	131	4929	41	8	8	110	161	7003	2604	56	✓	A+++	8	178	3646	41	8	8	139	218	5544	1932	56
PUD-SWM80YAA(-BS)	EHSD-****D	✓	A++	8	130	4976	41	8	8	109	159	7033	2633	56	✓	A+++	8	176	3689	41	8	8	138	215	5582	1962	56
	ERSD-****D	✓	A++	8	130	4976	41	8	8	109	159	7033	2633	56	✓	A+++	8	176	3689	41	8	8	138	215	5582	1962	56
PUD-SWM100VAA(-BS)	EHSD-****D	✓	A++	10	131	6173	41	10	10	109	152	8788	3440	59	✓	A+++	10	178	4564	41	10	10	146	221	6617	2388	59
	ERSD-****D	✓	A++	10	131	6173	41	10	10	109	152	8788	3440	59	✓	A+++	10	178	4564	41	10	10	146	221	6617	2388	59
PUD-SWM100YAA(-BS)	EHSD-****D	✓	A++	10	130	6210	41	10	10	109	151	8841	3468	59	✓	A+++	10	177	4602	41	10	10	145	218	6653	2417	59
	ERSD-****D	✓	A++	10	130	6210	41	10	10	109	151	8841	3468	59	✓	A+++	10	177	4602	41	10	10	145	218	6653	2417	59
PUD-SWM120VAA(-BS)	EHSD-****D	✓	A++	12	129	7519	41	12	12	109	150	10611	4188	60	✓	A+++	12	177	5512	41	12	12	140	217	8265	2921	60
	ERSD-****D	✓	A++	12	129	7519	41	12	12	109	150	10611	4188	60	✓	A+++	12	177	5512	41	12	12	140	217	8265	2921	60
PUD-SWM120YAA(-BS)	EHSD-****D	✓	A++	12	128	7555	41	12	12	108	149	10646	4213	60	✓	A+++	12	176	5548	41	12	12	139	215	8316	2948	60
	ERSD-****D	✓	A++	12	128	7555	41	12	12	108	149	10646	4213	60	✓	A+++	12	176	5548	41	12	12	139	215	8316	2948	60
PUD-SHWM60VAA(-BS)	EHSD-****D	✓	A++	6	134	3631	41	6	6	113	159	5100	1975	55	✓	A+++	6	178	2743	41	6	6	138	220	4197	1439	55
	ERSD-****D	✓	A++	6	134	3631	41	6	6	113	159	5100	1975	55	✓	A+++	6	178	2743	41	6	6	138	220	4197	1439	55
PUD-SHWM80VAA(-BS)	EHSD-****D	✓	A++	8	135	4793	41	8	8	114	166	6768	2534	56	✓	A+++	8	181	3597	41	8	8	145	225	5347	1876	56
	ERSD-****D	✓	A++	8	135	4793	41	8	8	114	166	6768	2534	56	✓	A+++	8	181	3597	41	8	8	145	225	5347	1876	56
PUD-SHWM80YAA(-BS)	EHSD-****D	✓	A++	8	134	4832	41	8	8	113	164	6815	2565	56	✓	A+++	8	179	3632	41	8	8	143	222	5388	1903	56
	ERSD-****D	✓	A++	8	134	4832	41	8	8	113	164	6815	2565	56	✓	A+++	8	179	3632	41	8	8	143	222	5388	1903	56
PUD-SHWM100VAA(-BS)	EHSD-****D	✓	A++	10	136	5938	41	10	10	115	163	8364	3226	59	✓	A+++	10	180	4527	41	10	10	149	235	6472	2246	59
	ERSD-****D	✓	A++	10	136	5938	41	10	10	115	163	8364	3226	59	✓	A+++	10	180	4527	41	10	10	149	235	6472	2246	59
PUD-SHWM100YAA(-BS)	EHSD-****D	✓	A++	10	135	5975	41	10	10	114	161	8411	3252	59	✓	A+++	10	178	4571	41	10	10	148	232	6517	2273	59
	ERSD-****D	✓	A++	10	135	5975	41	10	10	114	161	8411	3252	59	✓	A+++	10	178	4571	41	10	10	148	232	6517	2273	59
PUD-SHWM120VAA(-BS)	EHSD-****D	✓	A++	12	135	7170	41	12	12	115	159	10055	3963	60	✓	A+++	12	179	5453	41	12	12	149	231	7792	2745	60
	ERSD-****D	✓	A++	12	135	7170	41	12	12	115	159	10055	3963	60	✓	A+++	12	179	5453	41	12	12	149	231	7792	2745	60
PUD-SHWM120YAA(-BS)	EHSD-****D	✓	A++	12	134	7213	41	12	12	114	158	10108	3977	60	✓	A+++	12	177	5496	41	12	12	148	229	7817	2769	60
	ERSD-****D	✓	A++	12	134	7213	41	12	12	114	158	10108	3977	60	✓	A+++	12	177	5496	41	12	12	148	229	7817	2769	60
PUD-SHWM140VAA(-BS)	EHSD-****D	✓	A++	14	134	8421	41	14	14	112	155	11952	4725	62	✓	A+++	14	179	6367	41	14	14	145	224	9320	3294	62
	ERSD-****D	✓	A++	14	134	8421	41	14	14	112	155	11952	4725	62	✓	A+++	14	179	6367	41	14	14	145	224	9320	3294	62
PUD-SHWM140YAA(-BS)	EHSD-****D	✓	A++	14	134	8455	41	14	14	112	155	11977	4746	62	✓	A+++	14	177	6416	41	14	14	144	223	9372	3316	62
	ERSD-****D	✓	A++	14	134	8455	41	14	14	112	155	11977	4746	62	✓	A+++	14	177	6416	41	14	14	144	223	9372	3316	62

2.COMBINATION HEATER

		For medium-temperature application																						For low-temperature application																					
1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Outdoor unit	Indoor unit	Medium-temperature application	Declared load profile	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual electricity consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L_{WA} indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L_{WA} outdoor	Low-temperature application	Declared load profile	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual electricity consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L_{WA} indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L_{WA} outdoor
						kW	kWh	kWh	%	%	dB		kW	kW	kWh	kWh	kWh	kWh	%	%	%	%	dB					kW	kWh	kWh	%	%	dB		kW	kW	kWh	kWh	kWh	kWh	%	%	%	%	dB
PUD-SWM60VAA(-BS)	EHST17D-****D	✓	L	A++	A+	6	3722	798	130	136	41	-	6	6	5284	2120	968	709	109	148	112	154	55	✓	L	A+++	A+	6	2780	798	175	136	41	-	6	6	4347	1543	968	709	133	205	112	154	55
	ERST17D-****D	✓	L	A++	A+	6	3722	798	130	136	41	-	6	6	5284	2120	968	709	109	148	112	154	55	✓	L	A+++	A+	6	2780	798	175	136	41	-	6	6	4347	1543	968	709	133	205	112	154	55
	ERST17D-***BD	✓	L	A++	A+	6	3722	798	130	136	41	-	6	6	5284	2120	968	709	109	148	112	154	55	✓	L	A+++	A+	6	2780	798	175	136	41	-	6	6	4347	1543	968	709	133	205	112	154	55
	EHST20D-****D	✓	L	A++	A+	6	3722	770	130	141	41	-	6	6	5284	2120	900	682	109	148	120	160	55	✓	L	A+++	A+	6	2780	770	175	141	41	-	6	6	4347	1543	900	682	133	205	120	160	55
	ERST20D-****D	✓	L	A++	A+	6	3722	770	130	141	41	-	6	6	5284	2120	900	682	109	148	120	160	55	✓	L	A+++	A+	6	2780	770	175	141	41	-	6	6	4347	1543	900	682	133	205	120	160	55
	EHST30D-****D	✓	XL	A++	A	6	3722	1431	130	121	41	-	6	6	5284	2120	1700	1203	109	148	102	145	55	✓	XL	A+++	A	6	2780	1431	175	121	41	-	6	6	4347	1543	1700	1203	133	205	102	145	55
	ERST30D-****D	✓	XL	A++	A	6	3722	1431	130	121	41	-	6	6	5284	2120	1700	1203	109	148	102	145	55	✓	XL	A+++	A	6	2780	1431	175	121	41	-	6	6	4347	1543	1700	1203	133	205	102	145	55
PUD-SWM80VAA(-BS)	EHST17D-****D	✓	L	A++	A+	8	4929	798	131	136	41	-	8	8	7003	2604	968	709	110	161	112	154	56	✓	L	A+++	A+	8	3646	798	178	136	41	-	8	8	5544	1932	968	709	139	218	112	154	56
	ERST17D-****D	✓	L	A++	A+	8	4929	798	131	136	41	-	8	8	7003	2604	968	709	110	161	112	154	56	✓	L	A+++	A+	8	3646	798	178	136	41	-	8	8	5544	1932	968	709	139	218	112	154	56
	ERST17D-***BD	✓	L	A++	A+	8	4929	798	131	136	41	-	8	8	7003	2604	968	709	110	161	112	154	56	✓	L	A+++	A+	8	3646	798	178	136	41	-	8	8	5544	1932	968	709	139	218	112	154	56
	EHST20D-****D	✓	L	A++	A+	8	4929	770	131	141	41	-	8	8	7003	2604	900	682	110	161	120	160	56	✓	L	A+++	A+	8	3646	770	178	141	41	-	8	8	5544	1932	900	682	139	218	120	160	56
	ERST20D-****D	✓	L	A++	A+	8	4929	770	131	141	41	-	8	8	7003	2604	900	682	110	161	120	160	56	✓	L	A+++	A+	8	3646	770	178	141	41	-	8	8	5544	1932	900	682	139	218	120	160	56
	EHST30D-****D	✓	XL	A++	A	8	4929	1431	131	121	41	-	8	8	7003	2604	1700	1203	110	161	102	145	56	✓	XL	A+++	A	8	3646	1431	178	121	41	-	8	8	5544	1932	1700	1203	139	218	102	145	56
	ERST30D-****D	✓	XL	A++	A	8	4929	1431	131	121	41	-	8	8	7003	2604	1700	1203	110	161	102	145	56	✓	XL	A+++	A	8	3646	1431	178	121	41	-	8	8	5544	1932	1700	1203	139	218	102	145	56
PUD-SWM80YAA(-BS)	EHST17D-****D	✓	L	A++	A+	8	4976	798	130	136	41	-	8	8	7033	2633	968	709	109	159	112	154	56	✓	L	A+++	A+	8	3689	798	176	136	41	-	8	8	5582	1962	968	709	138	215	112	154	56
	ERST17D-****D	✓	L	A++	A+	8	4976	798	130	136	41	-	8	8	7033	2633	968	709	109	159	112	154	56	✓	L	A+++	A+	8	3689	798	176	136	41	-	8	8	5582	1962	968	709	138	215	112	154	56
	ERST17D-***BD	✓	L	A++	A+	8	4976	798	130	136	41	-	8	8	7033	2633	968	709	109	159	112	154	56	✓	L	A+++	A+	8	3689	798	176	136	41	-	8	8	5582	1962	968	709	138	215	112	154	56
	EHST20D-****D	✓	L	A++	A+	8	4976	770	130	141	41	-	8	8	7033	2633	900	682	109	159	120	160	56	✓	L	A+++	A+	8	3689	770	176	141	41	-	8	8	5582	1962	900	682	138	215	120	160	56
	ERST20D-****D	✓	L	A++	A+	8	4976	770	130	141	41	-	8	8	7033	2633	900	682	109	159	120	160	56	✓	L	A+++	A+	8	3689	770	176	141	41	-	8	8	5582	1962	900	682	138	215	120	160	56
	EHST30D-****D	✓	XL	A++	A	8	4976	1431	130	121	41	-	8	8	7033	2633	1700	1203	109	159	102	145	56	✓	XL	A+++	A	8	3689	1431	176	121	41	-	8	8	5582	1962	1700	1203	138	215	102	145	56
	ERST30D-****D	✓	XL	A++	A	8	4976	1431	130	121	41	-	8	8	7033	2633	1700	1203	109	159	102	145	56	✓	XL	A+++	A	8	3689	1431	176	121	41	-	8	8	5582	1962	1700	1203	138	215	102	145	56
PUD-SWM100VAA(-BS)	EHST20D-****D	✓	L	A++	A+	10	6173	770	131	141	41	-	10	10	8788	3440	900	682	109	152	120	160	59	✓	L	A+++	A+	10	4564	770	178	141	41	-	10	10	6617	2388	900	682	146	221	120	160	59
	ERST20D-****D	✓	L	A++	A+	10	6173	770	131	141	41	-	10	10	8788	3440	900	682	109	152	120	160	59	✓	L	A+++	A+	10	4564	770	178	141	41	-	10	10	6617	2388	900	682	146	221	120	160	59
	EHST30D-****D	✓	XL	A++	A	10	6173	1431	131	121	41	-	10	10	8788	3440	1700	1203	109	152	102	145	59	✓	XL	A+++	A	10	4564	1431	178	121	41	-	10	10	6617	2388	1700	1203	146	221	102	145	59
	ERST30D-****D	✓	XL	A++	A	10	6173	1431	131	121	41	-	10	10	8788	3440	1700	1203	109	152	102	145	59	✓	XL	A+++	A	10	4564	1431	178	121	41	-	10	10	6617	2388	1700	1203	146	221	102	145	59
PUD-SWM100YAA(-BS)	EHST20D-****D	✓	L	A++	A+	10	6210	770	130	141	41	-	10	10	8841	3468	900	682	109	151	120	160	59	✓	L	A+++	A+	10	4602	770	177	141	41	-	10	10	6653	2417	900	682	145	218	120	160	59
	ERST20D-****D	✓	L	A++	A+	10	6210	770	130	141	41	-	10	10	8841	3468	900	682	109	151	120	160	59	✓	L	A+++	A+	10	4602	770	177	141	41	-	10	10	6653	2417	900	682	145	218	120	160	59
	EHST30D-****D	✓	XL	A++	A	10	6210	1431	130	121	41	-	10	10	8841	3468	1700	1203	109	151	102	145	59	✓	XL	A+++	A	10	4602	1431	177	121	41	-	10	10	6653	2417	1700	1203	145	218	102	145	59
	ERST30D-****D	✓	XL	A++	A	10	6210	1431	130	121	41	-	10	10	8841	3468	1700	1203	109	151	102	145	59	✓	XL	A+++	A	10	4602	1431	177	121	41	-	10	10	6653	2417	1700	1203	145	218	102	145	59
PUD-SWM120VAA(-BS)	EHST20D-****D	✓	L	A++	A+	12	7519	770	129	141	41	-	12	12	10611	4188	900	682	109	150	120	160	60	✓	L	A+++	A+	12	5512	770	177	141	41	-	12	12	8265	2921	900	682	140	217	120	160	60
	ERST20D-****D	✓	L	A++	A+	12	7519	770	129	141	41	-	12	12	10611	4188	900	682	109	150	120	160	60	✓	L	A+++	A+	12	5512	770	177	141	41	-	12	12	8265	2921	900	682	140	217	120	160	60
	EHST30D-****D	✓	XL	A++	A	12	7519	1431	129	121	41	-	12	12	10611	4188	1700	1203	109	150	102	145	60	✓	XL	A+++	A	12	5512	1431	177	121	41	-	12	12	8265	2921	1700	1203	140	217	102	145	60
	ERST30D-****D	✓	XL	A++	A	12	7519	1431	129	121	41	-	12	12	10611	4188	1700	1203	109	150	102	145	60	✓	XL	A+++	A	12	5512	1431	177	121	41	-	12	12	8265	2921	1700	1203	140	217	102	145	60
PUD-SWM120YAA(-BS)	EHST20D-****D	✓	L	A++	A+	12	7555	770	128	141	41	-	12	12	10646	4213	900	682	108	149	120	160	60	✓	L	A+++	A+	12	5548	770	176	141	41	-	12	12	8316	2948	900	682	139	215	120	160	60
	ERST20D-****D	✓	L	A++	A+	12	7555	770	128	141	41	-	12	12	10646	4213	900	682	108	149	120	160	60	✓	L	A+++	A+	12	5548	770	176	141	41	-	12	12	8316	2948	900	682	139	215	120	160	60
	EHST30D-****D	✓	XL	A++	A	12	7555	1431	128	121	41	-	12	12	10646	4213	1700	1203	108	149	102	145	60	✓	XL	A+++	A	12	5548	1431	176	121	41	-	12	12	8316	2948	1700	1203	139	215	102	145	60
	ERST30D-****D	✓	XL	A++	A	12	7555	1431	128	121	41	-	12	12	10646	4213	1700	1203	108	149	102	145	60	✓	XL	A+++	A	12	5548	1431	176	121	41	-	12	12	8316	2948	1700	1203	139	215	102	145	60
PUD-SHWM60VAA(-BS)	EHST17D-****D	✓	L	A++	A+	6	3631	798	134	136	41	-	6	6	5100	1975	968	709	113	159	112	154	55	✓	L	A+++	A+	6	2743	798	178	136	41	-	6	6	4197	1439	968	709	138	220	112	154	55
	ERST17D-****D	✓	L	A++	A+	6	3631	798	134	136	41	-	6	6	5100	1975	968	709	113	159	112	154	55	✓	L	A+++	A+	6	2743	798	178	136	41	-	6	6	4197	1439	968	709	138	220	112	154	55
	ERST17D-***BD	✓	L	A++	A+	6	3631	798	134	136	41	-	6	6	5100	1975	968	709	113	159	112	154	55	✓	L	A+++	A+	6	2743	798	178	136	41	-	6	6	4197	1439	968	709	138	220	112	154	55
	EHST20D-****D	✓	L	A++	A+	6	3631	770	134	141	41	-	6	6	5100	1975	900	682	113	159	120	160	55	✓	L	A+++	A+	6	2743	770	178	141	41	-	6	6	4197	1439	900	682	138	220	120	160	55
	ERST20D-****D	✓	L	A++	A+	6	3631	770	134	141	41	-	6	6	5100	1975	900	682	113	159	120	160	55	✓	L	A+++	A+	6	2743	770	178	141	41	-	6	6	4197	1439	900	682	138	220	120	160	55
	EHST30D-****D	✓	XL	A++	A	6	3631	1431	134	121	41	-	6	6	5100	1975	1700	1203	113	159	102	145	55	✓	XL	A+++	A	6	2743	1431	178	121	41	-	6	6	4197	1439	1700	1203	138	220	102	145	55
	ERST30D-****D	✓	XL	A++	A	6	3631	1431	134	121	41	-	6	6	5100	1975	1700	1203	113	159	102	145	55	✓	XL	A+++	A	6	2743	1431	178	121	41	-	6	6	4197	1439	1700	1203	138	220	102	145	55
PUD-SHWM80VAA(-BS)	EHST17D-****D	✓	L	A++	A+	8	4793	798	135	136	41	-	8	8	6768	2534	968	709	114	166	112	154	56	✓	L	A+++	A+	8	3597	798	181	136	41	-	8	8	5347	1876	968	709	145	225	112	154	56
	ERST17D-****D	✓	L	A++	A+	8	4793	798	135	136	41	-	8	8	6768	2534	968	709	114	166	112	154	56	✓	L	A+++	A+	8	3597	798	181	136	41	-	8	8	5347	1876	968	709	145	225	112	154	56
	ERST17D-***BD	✓	L	A++	A+	8	4793	798	135	136	41	-	8	8	6768	2534	968	709	114	166	112	154	56	✓	L	A+++	A+	8	3597	798	181	136	41	-	8	8	5347	1876	968	709	145	225	112	154	56
	EHST20D-****D	✓	L	A++	A+	8	4793	770	135	141	41	-	8	8	6768	2534	900	682	114	166	120	160	56	✓	L	A+++	A+	8	3597	770	181	141	41	-	8	8	5347	1876	900	682	145	225	120	160	56
	ERST20D-****D	✓	L	A++	A+	8	4793	770	135	141	41	-	8	8	6768	2534	900	682	114	166	120	160	56	✓	L	A+++	A+	8	3597	770	181	141	41	-	8	8	5347	1876	900	682	145	225	120	160	56
	EHST30D-****D	✓	XL	A++	A	8	4793	1431	135	121	41	-	8	8	6768	2534	1700	1203	114	166	102	145	56	✓	XL	A+++	A	8	3597	1431	181	121	41	-	8	8	5347	1876	1700	1203	145	225	102	145	56
	ERST30D-****D	✓	XL	A++	A	8	4793	1431	135	121	41	-	8	8	6768	2534	1700	1203	114	166	102	145	56	✓	XL	A+++	A	8	3597	1431	181	121	41	-	8	8	5347	1876	1700	1203	145	225	102	145	56
PUD-SHWM80YAA(-BS)	EHST17D-****D	✓	L	A++	A+	8	4832	798	134	136	41	-	8	8	6815	2565	968	709	113	164	112	154	56	✓	L	A+++	A+	8	3632	798	179	136	41	-	8	8	5388	1903	968	709	143	222	112	154	56
	ERST17D-****D	✓	L	A++	A+	8	4832	798	134	136	41	-	8	8	6815	2565	968	709	113	164	112	154	56	✓	L	A+++	A+	8	3632	798	179	136	41	-	8	8	5388	1903	968	709	143	222	112	154	56
	ERST17D-***BD	✓	L	A++	A+	8	4832	798	134	136	41	-	8	8	6815	2565	968	709	113	164	112	154	56	✓	L	A+++	A+	8	3632	798	179	136	41	-	8	8	5388	1903	968	709	143	222	112	154	56
	EHST20D-****D	✓	L	A++	A+	8	4832	770	134	141	41	-	8	8	6815	2565	900	682	113	164	120	160	56	✓	L	A+++	A+	8	3632	770	179	141	41	-	8	8	5388	1903	900	682	143	222	120	160	56
	ERST20D-****D	✓	L	A++	A+	8	4832	770	134	141	41	-	8	8	6815	2565	900	682	113	164	120	160	56	✓	L	A+++	A+	8	3632	770	179	141	41	-	8	8	5388	1903	900	682	143	222	120	160	56
	EHST30D-****D	✓	XL	A++	A	8	4832	1431	134	121	41	-	8	8	6815	2565	1700	1203	113	164	102	145	56	✓	XL	A+++	A	8	3632	1431	179	121	41	-	8	8	5388	1903	1700	1203	143	222	102	145	56
	ERST30D-****D	✓	XL	A++	A	8	4832	1431	134	121	41	-	8	8	6815	2565	1700	1203	113	164	102	145	56	✓	XL	A+++	A	8	3632	1431	179	121	41	-	8	8	5388	1903	1700	1203	143	222	102	145	56
PUD-SHWM100VAA(-BS)	EHST20D-****D	✓	L	A++	A+	10	5938	770	136	141	41	-	10	10	8364	3226	900	682	115	163	120	160	59	✓	L	A+++	A+	10	4527	770	180	141	41	-	10	10	6472	2246	900	682	149	235	120	160	59
	ERST20D-****D	✓	L	A++	A+	10	5938	770	136	141	41	-	10	10	8364	3226	900	682	115	163	120	160	59	✓	L	A+++	A+	10	4527	770	180	141	41	-	10	10	6472	2246	900	682	149	235	120	160	59
	EHST30D-****D	✓	XL	A++	A	10	5938	1431	136	121	41	-	10	10	8364	3226	1700	1203	115	163	102	145	59	✓	XL	A+++	A	10	4527	1431	180	121	41	-	10	10	6472	2246	1700	1203	149	235	102	145	59
	ERST30D-****D	✓	XL	A++	A	10	5938	1431	136	121	41	-	10	10	8364	3226	1700	1203	115	163	102	145	59	✓	XL	A+++	A	10	4527	1431	180	121	41	-	10	10	6472	2246	1700	1203	149	235	102	145	59
PUD-SHWM100YAA(-BS)	EHST20D-****D	✓	L	A++	A+	10	5975	770	135	141	41	-	10	10	8411	3252	900	682	114	161	120	160	59	✓	L	A+++	A+	10	4571	770	178	141	41	-	10	10	6517	2273	900	682	148	232	120	160	59
	ERST20D-****D	✓	L	A++	A+	10	5975	770	135	141	41	-	10	10	8411	3252	900	682	114	161	120	160	59	✓	L	A+++	A+	10	4571	770	178	141	41	-	10	10	6517	2273	900	682	148	232	120	160	59
	EHST30D-****D	✓	XL	A++	A	10	5975	1431	135	121	41	-	10	10	8411	3252	1700	1203	114	161	102	145	59	✓	XL	A+++	A	10	4571	1431	178	121	41	-	10	10	6517	2273	1700	1203	148	232	102	145	59
	ERST30D-****D	✓	XL	A++	A	10	5975	1431	135	121	41	-	10	10	8411	3252	1700	1203	114	161	102	145	59	✓	XL	A+++	A	10	4571	1431	178	121	41	-	10	10	6517	2273	1700	1203	148	232	102	145	59
PUD-SHWM120VAA(-BS)	EHST20D-****D	✓	L	A++	A+	12	7170	770	135	141	41	-	12	12	10055	3963	900	682	115	159	120	160	60	✓	L	A+++	A+	12	5453	770	179	141	41	-	12	12	7792	2745	900	682	149	231	120	160	60
	ERST20D-****D	✓	L	A++	A+	12	7170	770	135	141	41	-	12	12	10055	3963	900	682	115	159	120	160	60	✓	L	A+++	A+	12	5453	770	179	141	41	-	12	12	7792	2745	900	682	149	231	120	160	60
	EHST30D-****D	✓	XL	A++	A	12	7170	1431	135	121	41	-	12	12	10055	3963	1700	1203	115	159	102	145	60	✓	XL	A+++	A	12	5453	1431	179	121	41	-	12	12	7792	2745	1700	1203	149	231	102	145	60
	ERST30D-****D	✓	XL	A++	A	12	7170	1431	135	121	41	-	12	12	10055	3963	1700	1203	115	159	102	145	60	✓	XL	A+++	A	12	5453	1431	179	121	41	-	12	12	7792	2745	1700	1203	149	231	102	145	60
PUD-SHWM120YAA(-BS)	EHST20D-****D	✓	L	A++	A+	12	7213	770	134	141	41	-	12	12	10108	3977	900	682	114	158	120	160	60	✓	L	A+++	A+	12	5496	770	177	141	41	-	12	12	7817	2769	900	682	148	229	120	160	60
	ERST20D-****D	✓	L	A++	A+	12	7213	770	134	141	41	-	12	12	10108	3977	900	682	114	158	120	160	60	✓	L	A+++	A+	12	5496	770	177	141	41	-	12	12	7817	2769	900	682	148	229	120	160	60
	EHST30D-****D	✓	XL	A++	A	12	7213	1431	134	121	41	-	12	12	10108	3977	1700	1203	114	158	102	145	60	✓	XL	A+++	A	12	5496	1431	177	121	41	-	12	12	7817	2769	1700	1203	148	229	102	145	60
	ERST30D-****D	✓	XL	A++	A	12	7213	1431	134	121	41	-	12	12	10108	3977	1700	1203	114	158	102	145	60	✓	XL	A+++	A	12	5496	1431	177	121	41	-	12	12	7817	2769	1700	1203	148	229	102	145	60
PUD-SHWM140VAA(-BS)	EHST20D-****D	✓	L	A++	A+	14	8421	799	134	136	41	-	14	14	11952	4725	950	691	112	155	113	158	62	✓	L	A+++	A+	14	6367	799	179	136	41	-	14	14	9320	3294	950	691	145	224	113	158	62
	ERST20D-****D	✓	L	A++	A+	14	8421	799	134	136	41	-	14	14	11952	4725	950	691	112	155	113	158	62	✓	L	A+++	A+	14	6367	799	179	136	41	-	14	14	9320	3294	950	691	145	224	113	158	62
	EHST30D-****D	✓	XL	A++	A	14	8421	1443	134	121	41	-	14	14	11952	4725	1706	1255	112	155	102	139	62	✓	XL	A+++	A	14	6367	1443	179	121	41	-	14	14	9320	3294	1706	1255	145	224	102	139	62
	ERST30D-****D	✓	XL	A++	A	14	8421	1443	134	121	41	-	14	14	11952	4725	1706	1255	112	155	102	139	62	✓	XL	A+++	A	14	6367	1443	179	121	41	-	14	14	9320	3294	1706	1255	145	224	102	139	62
PUD-SHWM140YAA(-BS)	EHST20D-****D	✓	L	A++	A+	14	8455	799	134	136	41	-	14	14	11977	4746	950	691	112	155	113	158	62	✓	L	A+++	A+	14	6416	799	177	136	41	-	14	14	9372	3316	950	691	144	223	113	158	62
	ERST20D-****D	✓	L	A++	A+	14	8455	799	134	136	41	-	14	14	11977	4746	950	691	112	155	113	158	62	✓	L	A+++	A+	14	6416	799	177	136	41	-	14	14	9372	3316	950	691	144	223	113	158	62
	EHST30D-****D	✓	XL	A++	A	14	8455	1443	134	121	41	-	14	14	11977	4746	1706	1255	112	155	102	139	62	✓	XL	A+++	A	14	6416	1443	177	121	41	-	14	14	9372	3316	1706	1255	144	223	102	139	62
	ERST30D-****D	✓	XL	A++	A	14	8455	1443	134	121	41	-	14	14	11977	4746	1706	1255	112	155	102	139	62	✓	XL	A+++	A	14	6416	1443	177	121	41	-	14	14	9372	3316	1706	1255	144	223	102	139	62

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.6	kW	Tj = - 7 °C	COPd	2.14	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.24	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.94	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	1.87	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	7213	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	141	%
Daily electricity consumption	Qelec	3.500	kWh				
Annual electricity consumption	AEC	770	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

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

Kengo Takahashi

Kengo TAKAHASHI
Manager, Quality Assuarance Department
UNITED KINGDOM

・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.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	177	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.6	kW	Tj = - 7 °C	COPd	2.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.6	kW	Tj = + 7 °C	COPd	5.89	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	8.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	2.77	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	2.77	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	5496	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	141	%
Daily electricity consumption	Qelec	3.500	kWh				
Annual electricity consumption	AEC	770	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

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

Kengo TAKAHASHI

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

Manager, Quality Assuarance Department

UNITED KINGDOM

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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.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	114	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	2.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	1.52	-
Tj = operation limit temperature (***)	Pdh	9.7	kW	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	10.2	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.52	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.4	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	10108	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

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

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Kengo TAKAHASHI
Manager, Quality Assuarance Department
UNITED KINGDOM

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	148	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	3.73	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 2 °C	COPd	4.15	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.9	kW	Tj = + 7 °C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	7.43	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	2.10	-
Tj = operation limit temperature (***)	Pdh	9.7	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	10.2	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.15	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.4	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	7817	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	158	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	2.03	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.40	-
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	12.0	kW	Tj = bivalent temperature	COPd	2.03	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	2.03	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	3977	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	160	%
Daily electricity consumption	Qelec	3.110	kWh				
Annual electricity consumption	AEC	682	kWh				

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 °C	Pdh	12.0	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	7.7	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 °C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.0	kW
Tj = operation limit temperature (***)	Pdh	12.0	kW
Bivalent temperature	Tbiv	2	°C
Reference design conditions for space heating	Tdesignh	2	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB
Annual energy consumption	Q_{HE}	2769	kWh
For heat pump combination heater:			
Declared load profile	L		
Daily electricity consumption	Qelec	3.110	kWh
Annual electricity consumption	AEC	682	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	229	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	-	-
Tj = + 2 °C	COPd	3.30	-
Tj = + 7 °C	COPd	5.28	-
Tj = +12 °C	COPd	7.53	-
Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	COPd	3.30	-
Operation limit temperature	TOL	-28	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input	Electrical		
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	ηwh	160	%

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.6	kW	Tj = - 7 °C	COPd	2.14	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.24	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.94	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	1.87	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	7213	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	141	%
Daily electricity consumption	Qelec	3.500	kWh				
Annual electricity consumption	AEC	770	kWh				

Contact details

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Kengo Takahashi

Kengo TAKAHASHI
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UNITED KINGDOM

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	177	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.6	kW	Tj = - 7 °C	COPd	2.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.6	kW	Tj = + 7 °C	COPd	5.89	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	8.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	2.77	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	2.77	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	5496	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	141	%
Daily electricity consumption	Qelec	3.500	kWh				
Annual electricity consumption	AEC	770	kWh				

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	114	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	2.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	1.52	-
Tj = operation limit temperature (***)	Pdh	9.7	kW	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	10.2	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.52	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.4	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	10108	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

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UNITED KINGDOM

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	148	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	3.73	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 2 °C	COPd	4.15	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.9	kW	Tj = + 7 °C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	7.43	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	2.10	-
Tj = operation limit temperature (***)	Pdh	9.7	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	10.2	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.15	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.4	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	7817	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

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

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	158	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	2.03	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.40	-
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	12.0	kW	Tj = bivalent temperature	COPd	2.03	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	2.03	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	3977	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	160	%
Daily electricity consumption	Qelec	3.110	kWh				
Annual electricity consumption	AEC	682	kWh				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	229	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	5.28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	3.30	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	2769	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	160	%
Daily electricity consumption	Qelec	3.110	kWh				
Annual electricity consumption	AEC	682	kWh				

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.6	kW	Tj = - 7 °C	COPd	2.14	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.24	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.94	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	1.87	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	7213	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	141	%
Daily electricity consumption	Qelec	3.500	kWh				
Annual electricity consumption	AEC	770	kWh				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	177	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.6	kW	Tj = - 7 °C	COPd	2.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.6	kW	Tj = + 7 °C	COPd	5.89	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	8.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	2.77	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	2.77	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	5496	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	141	%
Daily electricity consumption	Qelec	3.500	kWh				
Annual electricity consumption	AEC	770	kWh				

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

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	114	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	2.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	1.52	-
Tj = operation limit temperature (***)	Pdh	9.7	kW	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	10.2	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.52	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.4	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	10108	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	7.3	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	4.5	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 °C	Pdh	3.9	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	5.5	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.1	kW
Tj = operation limit temperature (***)	Pdh	9.7	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	10.2	kW
Bivalent temperature	Tbiv	-16	°C
Reference design conditions for space heating	Tdesignh	-22	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB
Annual energy consumption	Q_{HE}	7817	kWh
For heat pump combination heater:			
Declared load profile	L		
Daily electricity consumption	Qelec	4.090	kWh
Annual electricity consumption	AEC	900	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	148	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	3.73	-
Tj = + 2 °C	COPd	4.15	-
Tj = + 7 °C	COPd	5.34	-
Tj = +12 °C	COPd	7.43	-
Tj = bivalent temperature	COPd	2.10	-
Tj = operation limit temperature (***)	COPd	1.83	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.15	-
Operation limit temperature	TOL	-28	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	2.4	kW
Type of energy input	Electrical		
Rated air flow rate, outdoors	-	2640	m^3/h
Water heating energy efficiency	ηwh	120	%

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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.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	158	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	2.03	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.40	-
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	12.0	kW	Tj = bivalent temperature	COPd	2.03	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	2.03	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	3977	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	160	%
Daily electricity consumption	Qelec	3.110	kWh				
Annual electricity consumption	AEC	682	kWh				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

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

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

Kengo TAKAHASHI
Manager, Quality Assuarance Department
UNITED KINGDOM

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUD-SHWM120YAA(-BS)
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	ηs	229	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	5.28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	Pdh	12.0	kW	Tj = operation limit temperature (***)	COPd	3.30	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41 / 60	dB				
Annual energy consumption	Q_{HE}	2769	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	160	%
Daily electricity consumption	Qelec	3.110	kWh				
Annual electricity consumption	AEC	682	kWh				

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