



Mitsubishi Electric Erp Directive Related Product Information: erp.mitsubishielectric.eu/erp

PRODUCT FICHE

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
This information is based on EU regulation No 811/2013 and No 813/2014.

1.SPACE HEATER 22 17 18 25 4 6 8 Ratech heat output under service and conditions output professions out Read has began under warmer compared over discovery selection of the confidence selection of the confidence selection of the confidence selection of the confidence selection of the confidence that confidence the confidence that confidence the confidence that confidence the confidence that confi Low-temperature application
Steadon at space healthg enterly
effectively days
Retech heat culture under
a reteched forms condition
special conditions and a service healthg
for special he mi ij Sound power level Ly Rated heat output un dimate conditions space \$\frac{\pi}{\psi} \frac{\pi}{\psi} \frac{\psi}{\psi} \frac{\psi}{\psi} \frac{\psi}{\psi} \frac{\psi}{\psi} \frac{\psi}{\psi} PUZ-SWM60VAA ERSD-****D EHSD-****D PUZ-SWM80VAA ERSD-****D EHSD-****D ERSD-****D PUZ-SWM80YAA
 V
 A++
 10
 132
 6106
 41
 10
 10
 109
 156
 8813
 3362
 58
 V
 A+++
 10
 178
 4564
 41
 10
 10
 147
 223
 6575
 2369
 58

 V
 A++
 10
 134
 6051
 41
 10
 10
 109
 159
 8780
 3296
 58
 V
 A+++
 10
 180
 4509
 41
 10
 10
 147
 223
 6555
 2302
 58

 V
 A++
 10
 123
 6051
 41
 10
 10
 199
 159
 8780
 3296
 58
 V
 A+++
 10
 180
 4509
 41
 10
 10
 147
 229
 6555
 2302
 58

 V
 A++
 10
 123
 6061
 41
 10
 10
 109
 159
 8791
 3306
 58
 V
 A+++
 10
 180
 <t EHSD-****D PUZ-SWM100VAA PUZ-SWM100YAA EHSD-****D ERSD-**** 12 131 7450 41 12 12 109 154 10673 4115 58 \(\sqrt{A} \) A+++ 12 177 5566 41 12 12 12 141 221 8290 2882 58 12 132 7395 41 12 12 109 157 10840 4049 58 \(\sqrt{A} \) A+++ 12 178 5511 41 12 12 12 141 12 72 8257 2816 58 PUZ-SWM120VAA EHSD-****D
 J
 A++
 12
 131
 7485
 41
 12
 109
 153
 10698
 4157
 58
 J
 A+++
 12
 176
 5600
 41
 12
 12
 140
 218
 8316
 2922
 58

 J
 A++
 12
 132
 7404
 41
 12
 12
 109
 156
 10649
 4060
 58
 J
 A+++
 12
 178
 5520
 41
 12
 12
 141
 226
 8267
 2825
 58
 PUZ-SWM120YAA ERSD-****D
 V
 A++
 14
 134
 8438
 41
 14
 14
 104
 150
 12843
 4893
 58
 V
 A+++
 14
 175
 6483
 41
 14
 132
 219
 10250
 3367
 58

 V
 A++
 14
 135
 8383
 41
 14
 14
 105
 152
 12810
 4826
 58
 V
 A+++
 14
 177
 6428
 41
 14
 14
 132
 224
 10217
 3301
 58
 PUZ-SWM140VAA
 V
 A++
 14
 134
 8473
 41
 14
 14
 104
 149
 12867
 4934
 58
 V
 A+++
 14
 175
 6517
 41
 14
 14
 131
 217
 10275
 3407
 58

 V
 A++
 14
 135
 8392
 41
 14
 14
 105
 152
 12819
 4837
 58
 V
 A+++
 14
 177
 6437
 41
 14
 14
 131
 217
 10275
 3407
 58

 V
 A++
 6
 129
 3761
 41
 6
 6
 115
 159
 4993
 1880
 54
 V
 A+++
 6
 184
 2655
 41
 6
 6
 138
 220
 420
 437
 54

 J
 A++
 6
 128
 2600
 41
 6
 6
 138
 220
 420
 41
 54

 J
 A++
 6
 138
 EHSD-**** PUZ-SWM140YAA ERSD-**** PUZ-SHWM60VAA ERSD-****D
 V
 A++
 8
 132
 4904
 41
 8
 8
 115
 167
 6705
 2521
 54
 V
 A+++
 8
 183
 3530
 41
 8
 8
 146
 225
 5299
 1874
 54

 V
 A++
 8
 133
 4894
 41
 8
 8
 115
 171
 6672
 2454
 54
 V
 A+++
 8
 187
 3475
 41
 8
 8
 147
 233
 5266
 1808
 54

 V
 A+++
 8
 133
 4800
 41
 8
 8
 115
 170
 6689
 2469
 54
 V
 A+++
 8
 187
 3487
 41
 8
 8
 146
 225
 5299
 1874
 54

 J
 A++
 8
 133
 4800
 41
 8
 8
 115
 170
 6689
 2469
 54
 J
 A+++
 8
 187
 3487
 < EHSD-**** PUZ-SHWM80VAA PUZ-SHWM80YAA EHSD-****D EHSD-****D
 V
 A++
 10
 136
 5936
 41
 10
 10
 116
 164
 8272
 3204
 58
 V
 A+++
 10
 183
 4444
 41
 10
 10
 149
 236
 6480
 2233
 58

 V
 A++
 10
 138
 5881
 41
 10
 10
 117
 167
 8239
 3138
 58
 V
 A+++
 10
 185
 4389
 41
 10
 10
 150
 244
 6447
 2167
 58

 V
 A++
 10
 185
 4389
 41
 10
 10
 10
 10
 10
 117
 167
 8293
 3246
 58
 V
 A+++
 10
 185
 4389
 41
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 PUZ-SHWM100VAA EHSD-****D PUZ-SHWM100YAA ERSD-****D PUZ-SHWM120VAA EHSD-****D
 V
 A++
 12
 136
 7204
 41
 12
 12
 117
 159
 9927
 3995
 58
 V
 A+++
 12
 178
 5516
 41
 12
 12
 149
 228
 7868
 2793
 58

 V
 A++
 12
 137
 7123
 41
 12
 112
 118
 163
 9878
 3898
 58
 V
 A+++
 12
 181
 5435
 41
 12
 12
 150
 237
 7819
 2696
 58
 PUZ-SHWM120YAA V A++ 14 141 8021 41 14 14 115 156 11650 4715 58 V A+++ 14 183 6227 41 14 14 153 225 8841 3279 58

V A++ 14 141 42 7965 41 14 14 116 158 11617 4649 58 V A+++ 14 184 6172 41 14 14 154 230 8807 3212 58 PUZ-SHWM140VAA

	ERSD-****D	✓ A++ 14 142 7965 41 14 14 116 158 11617 4649 58 ✓ A+++ 14 184 6172 41 14 14 154 230 8807 3212 58	
PUZ-SHWM140YAA	EHSD-****D	✓ A++ 14 141 8055 41 14 14 115 154 11674 4757 58 ✓ A+++ 14 182 6262 41 14 153 222 8865 3319 58	
FUZ-SHWWI14UTAA	ERSD-****D	✓ A++ 14 142 7974 41 14 116 158 11625 4659 58 ✓ A+++ 14 184 6181 41 14 154 229 8816 3222 58	
	•		
2.COMBINATION HEAT		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 1	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
		and the control of th	ima arm nou dépor dépor de la litera de la latera de latera de la late
ŧ	#		y inc on on on one of one on one of one one one of one one of one one of one one
2	5	in a late of the control of the cont	with the control of t
8	0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ere en
d d	2	have been seed to be a seed to	head of the control o
· ·		1	the same of the sa
		de la company de	wund der der der in iber der der in iber der der in iber der der in iber in iber der in ib
		* A A B S A A B A A B A B A B A B A B A B	8 to 8 s 8 s 2 d 2 d 2 d 2 d 2 d 2 d 5 d d d d d d d
			% dB kW kW kWh kWh kWh kWh % % % dB
	EHST17D-****D	✓ L A++ A+ 6 3834 880 126 134 41 - 6 6 5181 2093 1060 846 111 150 105 135 54 ✓ L A+++ A+ 6 2701 880 18	181 134 41 - 6 6 4284 1519 1060 846 135 208 105 135 54
	ERST17D-****D	✓ L A++ A+ 6 3779 880 128 134 41 - 6 6 5147 2027 1060 846 112 155 105 135 54 ✓ L A+++ A+ 6 2646 880 18	184 134 41 - 6 6 4251 1453 1060 846 136 218 105 135 54
	ERST17D-***BD	✓ L A++ A+ 6 3779 880 128 134 41 - 6 6 5147 2027 1060 846 112 155 105 135 54 ✓ L A+++ A+ 6 2646 880 18	184 134 41 - 6 6 4251 1453 1060 846 136 218 105 135 54
PUZ-SWM60VAA	EHST20D-****D		181 134 41 - 6 6 4284 1519 1044 841 135 208 109 139 54
	ERST20D-****D		184 134 41 - 6 6 4251 1453 1044 841 136 218 109 139 54
	EHST30D-****D		
	ERST30D-****D		184 123 41 - 6 6 4251 1453 1759 1176 136 218 98 149 54
	EHST17D-****D		181 134 41 - 8 8 5460 1928 1060 846 141 219 105 135 54
	ERST17D-****D	√ L A++ A+ 8 4961 880 130 134 41 - 8 8 6857 2517 1060 846 112 167 105 135 54 √ L A+++ A+ 8 3543 880 18	184 134 41 - 8 8 5427 1862 1060 846 142 227 105 135 54
	ERST17D-***BD	✓ L A++ A+ 8 4961 880 130 134 41 - 8 8 6857 2517 1060 846 112 167 105 135 54 ✓ L A+++ A+ 8 3543 880 18	184 134 41 - 8 8 5427 1862 1060 846 142 227 105 135 54
PUZ-SWM80VAA	EHST20D-****D	✓ L A++ A+ 8 5016 898 129 134 41 - 8 8 6890 2584 1044 841 111 162 109 139 54 ✓ L A+++ A+ 8 3599 898 18	181 134 41 - 8 8 5460 1928 1044 841 141 219 109 139 54
	ERST20D-****D	✓ L A++ A+ 8 4961 898 130 134 41 - 8 8 6857 2517 1044 841 112 167 109 139 54 ✓ L A+++ A+ 8 3543 898 18	184 134 41 - 8 8 5427 1862 1044 841 142 227 109 139 54
	EHST30D-****D	✓ XL A++ A+ 8 5016 1417 129 123 41 - 8 8 6890 2584 1759 1176 111 162 98 149 54 ✓ XL A+++ A+ 8 3599 1417 18	181 123 41 - 8 8 5460 1928 1759 1176 141 219 98 149 54
	ERST30D-****D		184 123 41 - 8 8 5427 1862 1759 1176 142 227 98 149 54
	EHST17D-****D		179 134 41 - 8 8 5493 1973 1060 846 141 214 105 135 54
	ERST17D-****D		183 134 41 - 8 8 5444 1876 1060 846 142 225 105 135 54
DUZ CMAAOOMA	ERST17D-***BD		183 134 41 - 8 8 5444 1876 1060 846 142 225 105 135 54
PUZ-SWM80YAA	EHST20D-****D		179 134 41 - 8 8 5493 1973 1044 841 141 214 109 139 54
	ERST20D-****D		183 134 41 - 8 8 5444 1876 1044 841 142 225 109 139 54
	EHST30D-****D		179 123 41 - 8 8 5493 1973 1759 1176 141 214 98 149 54
	ERST30D-****D		183 123 41 - 8 8 5444 1876 1759 1176 142 225 98 149 54
	EHST20D-****D	✓ L A++ A+ 10 6106 898 132 134 41 - 10 10 8813 3362 1044 841 109 156 109 139 58 ✓ L A+++ A+ 10 4564 898 17	178
	ERST20D-****D	✓ L A++ A+ 10 6051 898 134 134 41 - 10 10 8780 3296 1044 841 109 159 109 139 58 ✓ L A+++ A+ 10 4509 898 18	180 134 41 - 10 10 6555 2302 1044 841 147 229 109 139 58
PUZ-SWM100VAA	EHST30D-****D	✓ XL A++ A+ 10 6106 1417 132 123 41 - 10 10 8813 3362 1759 1176 109 156 98 149 58 ✓ XL A+++ A+ 10 4564 1417 17	178 123 41 - 10 10 6575 2369 1759 1176 147 223 98 149 58
	ERST30D-****D		180 123 41 - 10 10 6555 2302 1759 1176 147 229 98 149 58
	EHST20D-****D		177 134 41 - 10 10 6601 2411 1044 841 146 219 109 139 58
			180 134 41 - 10 10 6565 2314 1044 841 147 228 109 139 58
PUZ-SWM100YAA	ERST20D-****D EHST30D-****D		177 123 41 - 10 10 6601 2411 1759 1176 146 219 98 149 58
	ERST30D-****D		
	EHST20D-****D		
PUZ-SWM120VAA	ERST20D-****D		
	EHST30D-****D		177 123 41 - 12 12 8290 2882 1759 1176 141 221 98 149 58
	ERST30D-****D		178 123 41 - 12 12 8257 2816 1759 1176 141 227 98 149 58
	EHST20D-****D		176 134 41 - 12 12 8316 2922 1044 841 140 218 109 139 58
PUZ-SWM120YAA	ERST20D-****D		178 134 41 - 12 12 8267 2825 1044 841 141 226 109 139 58
	EHST30D-****D		176 123 41 - 12 12 8316 2922 1759 1176 140 218 98 149 58
	ERST30D-****D	✓ XL A++ A+ 12 7404 1417 132 123 41 - 12 10649 4060 1759 1176 109 156 98 149 58 ✓ XL A+++ A+ 12 5520 1417 17	178 123 41 - 12 12 8267 2825 1759 1176 141 226 98 149 58
	EHST20D-****D	✓ L A++ A+ 14 8438 965 134 123 41 - 14 14 8438 965 174 123 41 - 15 14 14 12843 4893 1070 888 104 150 105 130 58 ✓ L A+++ A+ 14 6483 965 17	175 123 41 - 14 14 10250 3367 1070 888 132 219 105 130 58
PUZ-SWM140VAA	ERST20D-****D	✓ L A++ A+ 14 8383 965 135 123 41 - 14 12810 4826 1070 888 105 152 105 130 58 ✓ L A+++ A+ 14 6428 965 17	177 123 41 - 14 14 10217 3301 1070 888 132 224 105 130 58
F02-3WW140VAA	EHST30D-****D	✓ XL A++ A 14 8438 1610 134 114 41 - 14 12843 4893 1755 1434 104 150 104 130 58 ✓ XL A+++ A 14 6483 1610 17	175 114 41 - 14 14 10250 3367 1755 1434 132 219 104 130 58
	ERST30D-****D	✓ XL A++ A 14 8383 1610 135 114 41 - 14 12810 4826 1755 1434 105 152 104 130 58 ✓ XL A+++ A 14 6428 1610 175	177 114 41 - 14 14 10217 3301 1755 1434 132 224 104 130 58
	EHST20D-****D	✓ L A++ A+ 14 8473 965 134 123 41 - 14 14 12867 4934 1070 888 104 149 105 130 58 ✓ L A+++ A+ 14 6517 965 17	175 123 41 - 14 14 10275 3407 1070 888 131 217 105 130 58
	ERST20D-****D		177 123 41 - 14 14 10226 3310 1070 888 132 223 105 130 58
PUZ-SWM140YAA	EHST30D-****D		175 114 41 - 14 14 10275 3407 1755 1434 131 217 104 130 58
	ERST30D-****D		177 114 41 - 14 14 10226 3310 1755 1434 132 223 104 130 58
	EHST17D-****D		184 134 41 - 6 6 4202 1437 1060 846 138 220 105 135 54
	ERST17D-****D		
DUIZ OU 114/44001/44	ERST17D-***BD		188 134 41 - 6 6 4168 1371 1060 846 139 231 105 135 54
PUZ-SHWM60VAA	EHST20D-****D		184 134 41 - 6 6 4202 1437 1044 841 138 220 109 139 54
	ERST20D-****D		188 134 41 - 6 6 4168 1371 1044 841 139 231 109 139 54
	EHST30D-****D	✓ XL A++ A+ 6 3761 1417 129 123 41 - 6 6 4993 1980 1759 1176 115 159 98 149 54 ✓ XL A+++ A+ 6 2655 1417 18	184 123 41 - 6 6 4202 1437 1759 1176 138 220 98 149 54
	ERST30D-****D	✓ XL A++ A+ 6 3706 1417 131 123 41 - 6 6 4960 1914 1759 1176 116 165 98 149 54 ✓ XL A+++ A+ 6 2600 1417 18	188 123 41 - 6 6 4168 1371 1759 1176 139 231 98 149 54
	EHST17D-****D	✓ L A++ A+ 8 4904 880 132 134 41 - 8 8 6705 2521 1060 846 115 167 105 135 54 ✓ L A+++ A+ 8 3530 880 18	184 134 41 - 8 8 5299 1874 1060 846 146 225 105 135 54
	ERST17D-***D	✓ L A++ A+ 8 4849 880 133 134 41 - 8 8 6672 2454 1060 846 115 171 105 135 54 ✓ L A+++ A+ 8 3475 880 18	187 134 41 - 8 8 5266 1808 1060 846 147 233 105 135 54
	ERST17D-***BD	✓ L A++ A+ 8 4849 880 133 134 41 - 8 8 6672 2454 1060 846 115 171 105 135 54 ✓ L A+++ A+ 8 3475 880 18	187 134 41 - 8 8 5266 1808 1060 846 147 233 105 135 54
PUZ-SHWM80VAA	EHST20D-****D	✓ L A++ A+ 8 4904 898 132 134 41 - 8 8 6705 2521 1044 841 115 167 109 139 54 ✓ L A+++ A+ 8 3530 898 18	184 134 41 - 8 8 5299 1874 1044 841 146 225 109 139 54
1	ERST20D-****D		187 134 41 - 8 8 5266 1808 1044 841 147 233 109 139 54
	EHST30D-****D		184 123 41 - 8 8 5299 1874 1759 1176 146 225 98 149 54
	ERST30D-****D		187 123 41 - 8 8 5266 1808 1759 1176 147 233 98 149 54
	EHST17D-****D		182 134 41 - 8 8 5332 1920 1060 846 145 220 105 135 54
	ERST17D-****D		187 134 41 - 8 8 5284 1823 1060 846 146 232 105 135 54
PUZ-SHWM80YAA	ERST17D-***BD		187 134 41 - 8 8 5284 1823 1060 846 146 232 105 135 54
POZ-SHW M80YAA	EHST20D-****D		182 134 41 - 8 8 5332 1920 1044 841 145 220 109 139 54
	ERST20D-****D		187 134 41 - 8 8 5284 1823 1044 841 146 232 109 139 54
	EHST30D-****D		182 123 41 - 8 8 5332 1920 1759 1176 145 220 98 149 54
	ERST30D-****D	✓ XL A++ A+ 8 4860 1417 133 123 41 - 8 8 6689 2469 1759 1176 115 170 98 149 54 ✓ XL A+++ A+ 8 3487 1417 18	187 123 41 - 8 8 5284 1823 1759 1176 146 232 98 149 54
	EHST20D-****D		183 134 41 - 10 10 6480 2233 1044 841 149 236 109 139 58
PUZ-SHWM100VAA	ERST20D-****D	✓ L A++ A+ 10 5881 898 138 134 41 - 10 10 8239 3138 1044 841 117 167 109 139 58 ✓ L A+++ A+ 10 4389 898 18	185 134 41 - 10 10 6447 2167 1044 841 150 244 109 139 58
FUZ-SHW M100VAA	EHST30D-****D		183 123 41 - 10 10 6480 2233 1759 1176 149 236 98 149 58
	ERST30D-****D		185 123 41 - 10 10 6447 2167 1759 1176 150 244 98 149 58
	EHST20D-****D		181 134 41 - 10 10 6508 2276 1044 841 149 232 109 139 58
1			
PUZ-SHWM100YAA	ERST20D-****D		185 134 41 - 10 10 6459 2179 1044 841 150 242 109 139 58
	EHST30D-****D		181 123 41 - 10 10 6508 2276 1759 1176 149 232 98 149 58
	ERST30D-****D		185 123 41 - 10 10 6459 2179 1759 1176 150 242 98 149 58
1	EHST20D-****D		179 134 41 - 12 12 7843 2753 1044 841 149 232 109 139 58
PUZ-SHWM120VAA	ERST20D-****D		181 134 41 - 12 12 7810 2687 1044 841 150 238 109 139 58
	EHST30D-****D	✓ XL A++ A+ 12 7169 1417 136 123 41 - 12 9902 3952 1759 1176 117 161 98 149 58 ✓ XL A+++ A+ 12 5481 1417 17 117 12 12 12 12 12 12 12 14 12 14 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 1	179 123 41 - 12 12 7843 2753 1759 1176 149 232 98 149 58
	ERST30D-****D	✓ XL A++ A+ 12 714 1417 138 123 41 - 12 12 9869 386 1759 1176 118 163 98 149 58 ✓ XL A++ A+ 12 5426 1417 18	181 123 41 - 12 12 7810 2687 1759 1176 150 238 98 149 58
	EHST20D-****D		178
DU 17 0	ERST20D-****D		181 134 41 - 12 12 7819 2696 1044 841 150 237 109 139 58
PUZ-SHWM120YAA	EHST30D-****D		178 123 41 - 12 12 7868 2793 1759 1176 149 228 98 149 58
1	ERST30D-****D		181 123 41 - 12 12 7819 2696 1759 1176 150 237 98 149 58
—	EHST20D-****D		183 123 41 - 14 14 8841 3279 1070 888 153 225 105 130 58
1			
PUZ-SHWM140VAA	ERST20D-****D		
	EHST30D-****D		183
	ERST30D-****D		184 114 41 - 14 14 8807 3212 1755 1434 154 230 104 130 58
	EHST20D-****D		182 123 41 - 14 14 8865 3319 1070 888 153 222 105 130 58
PUZ-SHWM140YAA	ERST20D-****D		184 123 41 - 14 14 8816 3222 1070 888 154 229 105 130 58
1	EHST30D-****D	✓ XL A++ A 14 8055 1610 141 114 41 - 14 11674 4757 1755 1434 115 154 104 130 58 ✓ XL A+++ A 14 6262 1610 18	182 114 41 - 14 14 8865 3319 1755 1434 153 222 104 130 58

η σταθμη ηχητικής ισχυός L _{ww} εξωτερικου χωρου	O nivel de potencia sonora L _{WA} , no exterior n poziom mocy akustycznej L _{WA} , na zewnątrz -	lydelfektniveau L $_{WA}$ i иde нивото на звуковата мощност L $_{WA}$ на открито	Ljudelfektinvan L _{WA} , utomnus Inladina akustického výkonu L _{WA} ve venkovním prostoru	25 het geludsvermogensniveau L _{WA} bullen äänitehotaso L _{WA} ulkona
el nivel de potencia acústica L _{WA} en exteriores			der Schallleistungspegel L _{WA} im Freien	So
η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες -	a eficiência energética do aquecimento de água em condições climáticas mais quentes que efektywność energetyczna podgrzewania wody w warunkach klimatu ciepłego -	energieffektiviteten ved vandopvarmning under varmere kilmaforhold енергийната ефективност при подгряване на вода при по-топли климатични условия	Energieffektivítet víd vattenuppvärmning under varmare klimatförhállanden energetická účinnost ohřevu vody za teplejších klimatických podmínek	24 de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa
la eficiencia energética de caldeo de agua en condiciones climáticas más cálidas	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde la	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	Water heating energy efficiency under warmer climate conditions
η ενεργειακή απόδοση της θέρμανσης νερού υπό ψυχρότερες κλιματικές συνθήκες -	a eficiência energética do aquecimento de água em condições climáticas mais frias n efektywność energetyczna podgrzewania wody w warunkach klimatu chłodnego	energieffektiviteten ved vandopvarmning under koldere klimaforhold енергийната ефективност при подгряване на вода при по-студени климатични услови	Energieffektivitet vid vattenuppvärmning under kallare klimatförhållanden energetická účinnost ohfevu vody za chladnéjších klimatíckých podmínek	23 <u>de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden</u> vedenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa
la eficiencia energética de caldeo de agua en condiciones climáticas más frías	refficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde la	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	Water heating energy effic
	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu ciepł edo	сезонната енергийна ефективност при отопление при по-топли климатични условия	sezonní energetická účinnost vytápění za teplejších klimatických podmínek	tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa
η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθή κες	Cariue A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais nuentes	umadupes plus criadues årsvirkningsgraden ved rumopvarmning under varmere klimaforhold	Säsongsmedelverkningsgrad för rumsuppvärmning under varmare klimatförhållanden	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden
la eficiencia energética estacional de calefacción en condiciones climáticas más cálidas	oonego Tefficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più la	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	Seasonal space heating energy efficiency under warmer climate conditions
- 188	ırıds 1 sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chi 	сезонната енергийна ефективност при отопление при по-студени климатични условия	sezonní energetická účinnost vytápění za chladnějších klimatických podmínek	kiiridadunistariugineueri tilalämmityksen kausittainen energiatehokkuus kylmissä ilmasto-olosuhteissa
η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό ψυχρότερες κλιματικές συνθή	nreduce A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais nredicas mais no frances de constitues de consti	dinimatiques plus trotues arsvirkningsgraden ved rumopvarmning under koldere klimaforhold	Säsongsmedelverkningsgrad för rumsuppvärmning under kallare klimatförhållanden	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koudere
la eficiencia energética estacional de calefacción en condiciones climáticas más frías	stagionale di riscaldamento d'ambiente in condizioni climatiche più	атични условия l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	Seasonal space heating energy efficiency under colder climate conditions
συνθήκες -	mais quentes u odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach - telephonologiczne warunkach	за подгряване на вода, годишното потребление на електроенергия при по-топли клим	pro ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmínek	klima
lidas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές		ques plus chaudes dopvarmning det årl	ssen r vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden	se elektriciteitsverbruik onder warm
para calentar agua, el consumo anual de electricidad en condiciones climáticas más cá	chłodnego scaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più	'eau, la consommation annuelle d'électricité, dans les cor	rmwas	For water heating, annual energy consumption under warmer climate conditions
C anglyks?	mais fras w odniesieniu do nodorzewania wody roczne zużycje energii elektrycznej w warunkach w odniesieniu do nodorzewania wody roczne zużycje energii elektrycznej w warunkach	за подгожање на вода голиното потоеблење на верствоенем кого вода подгожање на верствоенем кого вода подгожа подгожа подгожа подгожа на верствоенем кого вода подгожа подго	nro ohřev vodv – roční spotřeha elektrické energie za chladněších klimatických podmínek	19
para carentar aguat, el consumo anual de electricidad en condiciones cimaticas mas mas via θέρμανση νερού, η επήσια καταγάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικέ	anamento dei acqua, il consumo anuto di energia, in condizioni cimaticas più all'empero de acqua, o consumo anutal de eletricidade em condicões climáticas	pour le criadurage de l'edu, la consommation annuelle d'electricite, dans les conditions climatiques plus froides for vandopvarmning det àrlige elforbrug under koldere klimatorhold	ur die warinwasserbeteilung, der Janniche Sciontwerbrauch der kalteren Nimaverna Itnissen För vattenupwärmning, ärlig elförbrukning under kallare klimatförhållanden	< 1 7
	ergii w warunkach klimatu	потребление на енергия при по-топли клиг	êní – roční spotřeba energie za teplejších klimatických podmínek	jiankulutus lämpimissä ilmast
για θέρμανση χώρου, η επήσια κατανάλωση ενέργειας υπό θερμότερες κλιματικές συνθήκες	Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais violentes	for rumopvarmning det årlige energiforbrug under varmere klimaforhold	För rumsuppvärmning, årlig energiförbrukning under varmare klimatförhållanden	18 voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden
para calentar espacios, el consumo anual de energía en condiciones climáticas más cá lidas	idamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	For space heating, annual energy consumption under warmer climate conditions
	mas w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu ch łodneco	за отопление, годишното потребление на енергия при по-студени климатични услови я	pro vytápění – roční spotřeba energie za chladnější klimatických podmínek	tilalämmityksestä vuotuinen energiankulutus kylmissä ilmasto-olosuhteissa
για θέρμανση χώρου, η επήσια κατανάλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες	ucimento ambiente, o consumo anual de energia em condições climáticas mais	for rumopvarmning det årlige energiforbrug under koldere klimaforhold	För rumsuppvärmning, årlig energiförbrukning under kallare klimatförhållanden	17 voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere
para calentar espacios, el consumo anual de energía en condiciones climáticas más frías	scaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più	normalizario romania modifica i par normalizario nun si materna in processo pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froibes	für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen	For space heating, annual energy consumption under colder climate conditions
η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες -	A potência calorifica nominal em condições climáticas mais quentes namionowa mos cientra w warmkach klimátir cientego	den nominelle nytteeffekt under varmere klimaforhold	Nominell avgiven värmeeffekt vid varmare klimatförhållanden Imenovitý tenelný výkon za teoleiších klimatických nodmínek	16 de nominale warmteafgifte, onder warmere klimaatomstandigheden nimellisjännöteho jämnimissä ilmasto-oksuhteissa
la potencia calorífica nominal en condiciones climáticas más cálidas	znamionowa moc cieplna w warunkach Klimatu chłodnego - la potenza termica nominale, in condizioni climatiche più calde la	номиналната топлинна мощност при по-студени климатични условия la puissance thermique nominale, dans les conditions climatiques plus chaudes	jmenovitý tepelný výkon za chladnějších klimatických podmínek die Wärmenennleistung bei wärmeren Klimaverhältnissen	nimellislämpöteho, kylmissä ilmasto-olo Rated heat output under warmer climate
la potencia calorífica nominal en condiciones climáticas más frías η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες	la potenza termica nominale, in condizioni climatiche più fredde A potência calorifica nominal em condições climáticas mais frias n	la puissance thermique nominale, dans les conditions climatiques plus froides den nominelle nytteeffekt under koldere klimaforhold	die Wärmenennleistung bei kälteren Klimaverhältnissen Nominell avgiven värmeeffekt vid kallare klimatförhållanden	Rated heat output under colder climate conditions 15 de nominale warmteafgifte, onder koudere klimaatomstandigheden
νειιουργια μονο εκτος των ωρων αιχμής	de unicional unicamente rora das noras de pico pracować jedynie w godzinach poza szczyłowym obciążeniem	работи само в часовете извън върховото натоварване	provozu pouze mimo špičku	14 Weirkeit utsitulieria in de daturen toimimaan ainoastaan kulutushuippujen ulkopuolella
funcionar solamente durante las horas de baja demanda	funzione soltanto durante fe ore morte	fonctionner qu'en l'entre creuses	dass ein ausschließlicher Betrieb des Kombineizgerätes zu Schwachlastzeiten	Work only during of speak hours
η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου	O nivel de potência sonora L _{WA} on interior novice monova del transition novice de potência sonora L _{WA} no interior novice monova del transition novice de potência sonora la manda del monoscripto novice monova del transition novice del monoscripto novice novi	lydefickriveauet L _{Wk} i inde	Ljudeffektivisk _{IVM} , i noordoori Ljudeffektivisk _{IVM} , i noordoori Hadina akuslisk bho vikrout I ve vnijfnim noostoni	13 het geluidsvermoşensiveau L _{WA} binnen äänitahotaso I skällä äänitahotaso I skällä
e nivel de notencia adistica I en interiores	l all'interno	le niveau de puissance acoustique à l'intérieur	der Schallleistungsnegel I in Gehällden	Sound nower level I, indoor
η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -	a eficiência energética do aquecimento de água(em condições climáticas médias) neficiêntivemos energetica do aquecimento de água(em condições climáticas médias) neficiêntivemos energeticas poddrzewania wody/w warunkach klimatu umiarkowanego)	energieffekt/witeten ved vandopvarmning(under gennemsnitilge klimaforhold) енергийната ефективност при подпояване на вода(при средни климатични условия)	Energieffektivítet vid vattenuppvärmning(vid genomsnittliga klimatförhállanden) energelická účinnost phřevu vodv za průměrných klimatických podmínek	12 de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden) vedenlämmityksen energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa)
la eficiencia energética del caldeo de agua(en condiciones climáticas medias)	si riscaldamento dell'acqua(in condizioni climatiche medie)	l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	Water heating energy efficiency under average climate conditions
	dias) sezonowa efektywność energetyczna ogrzewania pomieszczeń(w warunkach klimatu -	сезонната енергийна ефективност при отопление(при средни климатични условия)	natických podmínek	klimaatomstandigheden) tilalämmityksen kausittainen energia
η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες)	medie) A eficiência energética do aquecimento ambiente sazonal(em condições climáticas mé n	climatiques moyennes) årsvirkningsgraden ved rumopvarmning(under gennemsnitlige klimaforhold)	ltnissen Säsongsmedelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållanden)	de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde
la eficiencia energética estacional de calefacción(en condiciones climáticas medias)) itagionale di riscaldamento d'ambiente(in condizioni climatiche	ique saisonnière pour le chauffage des locaux(dans les con	jahreszeitbedingte Raumhelzungs-Energieeffizienz bei durchschnittlichen Klimavi	/ efficiency under average climate conditions
αυνθήκες) -	do podgrzewania wody, roczne zużycie energii elektrycznej(w warunkach	за подгряване на вода, годишното потребление(при средни климатични условия)	ohřev vody – roční spotřeba elektrické energie za průměrných klimatický	klimaatomstandigheden) vedenlämmityksestä vuotuinen sähk
για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές	_	climatiques moyennes) for vandopvarmning det årlige efforbrug(under gennemsnitlige klimaforhold)	lförbrukning(vi	ıt jaarlijkse elektriciteitsverbruik(onder gemiddel
para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)	nto dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	onsommation annuelle d'électricité(die Warmwasserbereitung, den jährlichen Stromverbrau	under averaç
		за отопление, годишното потребление на енергия(при средни климатични условия)	pro vytápění – roční spotřeba energie za průměrných klimatických podmínek	ltilalämmityksestä vuotuinen energiankulutus(keskimääräisissä ilmasto-olosuhteissa)
για τη θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας(υπό μέσες κλιματικές συνθήκες)	energia(em condições climáticas mé	orhold)), årlig energiförbrukning(vid genomsnittliga klimatförhållanden)	voor ruimteverwarming, het jaarlijkse energieverbruik(
- para calentar espacios, el consumo anual de energía(en condiciones climáticas medias)	znamionowa moc cieplna(w warunkach klimatu umiarkowanego) per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche pa	номиналната топлинна мощност(при средни климатични условия) pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions	jmenovitý tepelný výkon(za průměrných klimatických podmínek) für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhä	nimellislämpöteho(keskimääräisissä ilmasto-olosuhteissa) For space heating, annual energy consumption under average climate conditions
la potencia calorífica nominal(en condiciones climáticas medias) η ονομαστική θερμική ισχύς(υπό μέσες κλιματικές συνθήκες)	la potenza termica nominale(in condizioni climatiche medie) la Potenzia calorifica nominal(em condições climáticas médias) n	la puissance thermique nominale dans les conditions climatiques moyennes den nominelle nytteeffekt(under gennemsnitige klimaforhold)	die Wärmenenleistung bei durchschnittlichen Klimaverhältnissen Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden)	Rated heat output under average climate conditions de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden)
η ταξη ενεργετικής αποοσσής θερμανσής νερου	A ciasse de enciencia energenca do aquecimento de agua n A ciasse de enciencia energencia de aquecimento de agua n - kiasa efektywności energencia podgrzewania wody - r	класът на енергийната ефективност при подгряване на вода	energierrektivítetsklass via vattenuppvarmning třída energetické účinnosti ohřevu vody	de energie-efficienteklasse voor waterverwarming vedenlämmityksen energiatehokkuusluokka
la clase de eficiencia energética del caldeo de agua	la classe di efficienza energetica del riscaldamento dell'acqua	la classe d'efficacité énergétique, pour le chauffage de l'eau	die Klasse für die Warmwasserbereitungs-Energieeffizienz	Water heating energy efficiency
η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου	A classe de eficiência energética do aquecimento ambiente saconal In lunos normaniones de la constanción constanc	klassen for ársvírkningsgrad ved rumopvarmning och orazona sa so ococa oceana sa so ococa oceana sa so ococa oceana sa so ococa oceana so och oceana	säsongsrelaterade energifektivitetsklass vid rumsuppvärmning	6 de seizoensgebonden energie-efficiëntelkasse voor ruimteverwarming
la clase de eficiencia energética estacional de calefacción	Deklarowany profil obciążeń - la cłasse di efficienza enernetica stanionala del riscaldamento d'ambiente la	Обявен товаров профил а classe d'afficacité épernétique saisonnière nour le chauffage des locaux	Deklarovaný zátěžový profil die Klasse fiir die jehreszeithedingte Raumheizungs-Energieeffizienz	Ilmoitettu kuormitusprofiili
Perfil de carga declarado Δηλωμένο προφίλ φορτίου	Profilo di carico dichiarato Profilo de carga declarado Δ	Profil de soutirage déclaré Angivet forbrugsprofil	Angegebenes Lastprofil Deklarerad belastningsprofil	Declared load profile 5 Opgegeven capaciteitsprofiel
η εφαρμογή σε χαμηλή θερμοκρασία -	a aplicação a baixa temperatura zastosowania w niskich temperaturach -	lavlemperaturanvendelsen нискотемпературни приложения	lägtemperaturapplikation nizkoteplotni aplikace	4 lagetemperatuur-toepassing matalanlämpötilan sovellus
la aplicación de baja temperatura	zastosowania w srednich temperaturach le applicazioni a bassa temperatura la	среднотемпературното приложение l'application à basse température	Strednetepiotri aplikace Niedertemperaturanwendung	Low-temperature application
η εφορμογή σε μέση θερμοκρασία	e applicazioni a media temperatura a aplicação a média temperatura n	riapplication a moyenne temperature middeltemperaturanvendelsen	Mitteltemperaturanwendung mediumtemperaturapplikation	Medium-temperature application middentemperatuur-toepassing
	jednostka wewnętrzna	Вътрешно тяло	Vnitřní jednotka	Sisäyksikkö
unidad interior Εσωτερική μονάδα	unità interna unidade interior E.	unité intérieure Indendørs enhed	Innengerät Inomhusenhet	Indoor unit binnenunit
Εξωτερική μονάδα	unidade exterior E:	Udendørs enhed Behulho 19/10	Utomhusenhet Venkovní jednotka	1 buitenunit Ulkoyksikkö
Lunidad exterior	Polski - unità esterna un	Български unité extérieure	Čeština Außengerät	suomi Outdoor unit
Español Ελληνικά	Italiano E. Português E.	Français Dansk	Deutsch Svenska	English Nederlands
	<u>, </u>			
				I MINISORE (EXC

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		EHST17D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	131	%
Declared capacity for heating for part load a	nt indoor	•		Declared coefficient of performance or primary e	nergy ratio f	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	ure Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.21	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
		_	•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive 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	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	4941	kWh				
For heat pump combination heater:							
Declared load profile		L.		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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

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



Kenichi SAITO

Manager, Quality Assuarance Department

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

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

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

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA					
		Indoor unit:		EHST17D-***D					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				low-temperature application.					
Parameters for				average climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	182	%		
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r			
temperature 20 °C and outdoor temperature	Τј			part load at indoor temperature 20 °C and outdoor	or temperatur	re Tj	_		
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.22	-		
Degradation co-efficient (**)	Cdh	0.99	-				•		
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-		
Degradation co-efficient (**)	Cdh	0.98	-				•		
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.90	-		
Degradation co-efficient (**)	Cdh	0.97	-			•			
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.52	-		
Degradation co-efficient (**)	Cdh	0.95	-				•		
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-		
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.65	_		
							-		
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive 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		<u> </u>				
Other items									
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h		
Sound power level, indoors/outdoors	L_WA	41 / 54	dB						
Annual energy consumption	Q_{HE}	3568	kWh						
For heat pump combination heater:									
Declared load profile		L,		Water heating energy efficiency	ηwh	134	%		
Daily electricity consumption	Qelec	4.000	kWh						
Annual electricity consumption	AEC	880	kWh						
Contact details					_	_			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the person	n empowere	a to bind the	e supplier;	Kenichi SAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department					

TURKEY

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

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

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

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

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

Model(s): Outdoor unit:				PUZ-SHWM80YAA				
		Indoor unit:		EHST17D-***D				
Air-to-water heat pump:				yes				
Water-to-water heat pump:				no				
Brine-to-water heat pump:				no				
Low-temperature heat pump:				no				
Equipped with a supplementary heater:				yes				
Heat pump combination heater:				yes				
Parameters for				medium-temperature application.				
Parameters for				colder climate conditions.				
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	114	%	
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r		
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatur	е Тј		
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.65	-	
Degradation co-efficient (**)	Cdh	0.99	-				l	
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.45	-	
Degradation co-efficient (**)	Cdh	0.98	-				ļ.	
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.78	-	
Degradation co-efficient (**)	Cdh	0.98	-				ļ.	
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.74	-	
Degradation co-efficient (**)	Cdh	0.95	-					
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.51	-	
Tj = operation limit temperature (***)	Pdh	5.3	kW	Tj = operation limit temperature (***)	COPd	1.41	-	
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.51	-	
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	ve mode			Supplementary heater				
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	2.7	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	-	2220	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB					
Annual energy consumption	Q_{HE}	6737	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	105	%	
Daily electricity consumption	Qelec	4.820	kWh					
Annual electricity consumption	AEC	1060	kWh					
Contact details		1						
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	Yunusemre – I	Manisa, Turkey	
The identification and signature of the person	n empowere	d to bind the	supplier;					
The signature is signed in the average clim	ate / mediu	m-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department				

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

[•] 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

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

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

Model(s):	Model(s): Outdoor unit:				PUZ-SHWM80YAA				
		Indoor unit:		EHST17D-***D					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				low-temperature application.					
Parameters for				colder climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	145	%		
Declared capacity for heating for part load a	t indoor		•	Declared coefficient of performance or primary e	nergy ratio fo	r			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	е Тј			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.53	-		
Degradation co-efficient (**)	Cdh	0.98	-		ļ		j		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	4.30	-		
Degradation co-efficient (**)	Cdh	0.98	-		·		I		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.56	-		
Degradation co-efficient (**)	Cdh	0.97	-		ļ		I		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.56	-		
Degradation co-efficient (**)	Cdh	0.95	-		ļ		j		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.05	-		
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-		
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.05	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode	•	•	Supplementary heater					
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	2.6	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	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB		'		ı		
Annual energy consumption	Q_{HE}	5332	kWh						
For heat pump combination heater:		•							
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh		'		ı		
Annual electricity consumption	AEC	1060	kWh						
Contact details		•		•					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zo	lu Bulvari No:19	Yunusemre –	Manisa, Turkey		
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	ıre section.	Manager, Quality Assuarance Department					

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

[•] 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

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

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

Model(s):	JOIN ENTRY	Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		EHST17D-****D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	164	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatur	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				1
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.05	-
Degradation co-efficient (**)	Cdh	0.99] -			<u>, </u>	
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99] -			<u>, </u>	•
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	6.02	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.05	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	<u> </u>	L	Supplementary heater		<u> </u>	
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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	2566	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details	_	_					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the perso	n empowere	u to billa the	= supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediur	m-temperatu	ure section.	Manager, Quality Assuarance Department			
				TURKEY			

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

 $[\]bullet \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		EHST17D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	220	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.75	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.75	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	1		Supplementary heater		<u> </u>	
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	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	1920	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh			_	
Annual electricity consumption	AEC	846	kWh				
Contact details							_
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	i empowere	u io biiia the	s supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
				TURKEY			

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

 $[\]bullet \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		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.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	131	%
Declared capacity for heating for part load a	at indoor	!	•	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	ıre Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.21	-
Degradation co-efficient (**)	Cdh	0.98	-				l
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.95	-				•
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
		<u> </u>	1			<u> </u>	Í
Bivalent temperature Reference design conditions for space	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive mode	T	T	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	1						
Capacity control		variable	ı	Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	4941	kWh				
For heat pump combination heater:	ı					· · · · · · · · · · · · · · · · · · ·	
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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

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



Kenichi SAITO

Manager, Quality Assuarance Department

TURKEY

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

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

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

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

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

Model(s):	odel(s): Outdoor unit:			PUZ-SHWM80YAA						
		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	ltem	Symbol	Value	Unit			
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	182	%			
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	r				
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatur	e Tj				
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.22	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-			
Degradation co-efficient (**)	Cdh	0.98	-		'	<u>'</u>				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.90	-			
Degradation co-efficient (**)	Cdh	0.97	-		Į.					
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.52	-			
Degradation co-efficient (**)	Cdh	0.95	-		Į.					
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-			
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.65	-			
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C			
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than act	ve 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	i	Electrical				
Crankcase heater mode	P_{CK}	0.000	kW		i					
Other items										
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h			
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB		'					
Annual energy consumption	Q_{HE}	3568	kWh							
For heat pump combination heater:		•								
Declared load profile		L		Water heating energy efficiency	ηwh	134	%			
Daily electricity consumption	Qelec	4.080	kWh							
Annual electricity consumption	AEC	898	kWh							
Contact details		-								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:19	Yunusemre – I	Manisa, Turkey			
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO						
Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Kenichi SAITO Manager, Quality Assuarance Department										

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

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

 $[\]cdot \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA				
		Indoor unit:		EHST20D-***D				
Air-to-water heat pump:				yes				
Water-to-water heat pump:				no				
Brine-to-water heat pump:				no				
Low-temperature heat pump:				no				
Equipped with a supplementary heater:				yes				
Heat pump combination heater:				yes				
Parameters for				medium-temperature application.				
Parameters for				colder climate conditions.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	114	%	
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	r		
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	re Tj		
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.65	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.45	-	
Degradation co-efficient (**)	Cdh	0.98	-			-		
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.78	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.74	-	
Degradation co-efficient (**)	Cdh	0.95	-					
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.51	-	
Tj = operation limit temperature (***)	Pdh	5.3	kW	Tj = operation limit temperature (***)	COPd	1.41	-	
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.51	-	
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	ive mode			Supplementary heater				
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.7	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	-	2220	m ³ /h	
Sound power level, indoors/outdoors	L_WA	41 / 54	dB					
Annual energy consumption	Q_{HE}	6737	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	109	%	
Daily electricity consumption	Qelec	4.750	kWh					
Annual electricity consumption	AEC	1044	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – I	Manisa, Turkey	
The identification and signature of the person	n empowere	u to bind the	e supplier;	Kenichi SAITO				
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department				

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

 $[\]bullet \ \, \text{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

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

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

Model(s): Outdoor unit:				PUZ-SHWM80YAA					
		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.					
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	145	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatur	re Tj			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.53	-		
Degradation co-efficient (**)	Cdh	0.98	-				_		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	4.30	-		
Degradation co-efficient (**)	Cdh	0.98	-				I		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.56	-		
Degradation co-efficient (**)	Cdh	0.97	-			<u> </u>	1		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.56	-		
Degradation co-efficient (**)	Cdh	0.95	-				I		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.05	-		
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-		
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.05	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater		l .	I		
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	2.6	kW		
Thermostat-off mode	P_{TO}	0.022	kW			l .	I		
Standby mode	P_{SB}	0.022	kW	Type of energy input	i	Electrical			
Crankcase heater mode	P _{CK}	0.000	kW		i				
Other items									
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				1		
Annual energy consumption	Q_{HE}	5332	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	109	%		
Daily electricity consumption	Qelec	4.750	kWh						
Annual electricity consumption	AEC	1044	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:19	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department					

TURKEY

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	164	%
Declared capacity for heating for part load at	indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature T	· j			part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-			· · · · · · · · · · · · · · · · · · ·	
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.05	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	6.02	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.05	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than activ	ve 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	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	2566	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details	_						_
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANU				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	empowered	נט טוווט נחפ	s supplier;	Kenichi SAITO			
The signature is signed in the average clima	ate / mediur	n-temperatu	re section.	Manager, Quality Assuarance Department			

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		EHST20D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	220	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				!
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.99	-			-	
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.34	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.75	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.75	-
		ļ	i			1	ı
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive 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	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	1920	kWh				
For heat pump combination heater:	T						
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details					. 5		
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	iu Bulvari No:1	9 Yunusemre – I	vianisa, Lurkey
The identification and signature of the person	n embowete	a to billa the	ouppliel,	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
-				TURKEY			

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		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.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	131	%
Declared capacity for heating for part load a	at indoor	!		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	ıre Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-				l
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.21	-
Degradation co-efficient (**)	Cdh	0.98	-			-	l
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.98	-				!
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
			1			ļ	ı
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive 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	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	4941	kWh				
For heat pump combination heater:	_						
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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

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



Kenichi SAITO

Manager, Quality Assuarance Department

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

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

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		EHST20D-MED			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				no			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	182	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	•
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0.97	-			ı	1
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.52	-
Degradation co-efficient (**)	Cdh	0.95	-				1
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.65	-
							_
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive 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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				•
Annual energy consumption	Q_{HE}	3568	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				•
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	iu Bulvari No:19	9 Yunusemre –	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			

TURKEY

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		EHST20D-MED			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				no			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	114	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.45	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.78	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.74	-
Degradation co-efficient (**)	Cdh	0.95	-				1
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.51	-
Tj = operation limit temperature (***)	Pdh	5.3	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.51	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.7	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	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	6737	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the person	n empowere	a to bind the	e supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			

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

 $[\]bullet \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		EHST20D-MED			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				no			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	145	%
Declared capacity for heating for part load a	t indoor	ļ		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.53	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	4.30	-
Degradation co-efficient (**)	Cdh	0.98	-			<u> </u>	
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.56	_
Degradation co-efficient (**)	Cdh	0.97	-				ļ.
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.95	-				ļ.
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode		•	Supplementary heater		•	
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	2.6	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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	5332	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING TI	JRKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – I	Manisa. Turkev
The identification and signature of the person						_ : 4::45011110 - 1	
<u>-</u>	•			Kenichi SAITO			

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

TURKEY

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	164	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.05	-
Degradation co-efficient (**)	Cdh	0.99	-			-	
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	6.02	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.05	-
		-	•				ı
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive 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	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	2566	kWh				
For heat pump combination heater:	1					1	
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details	U.EAOTUE	HDKEY 10.0. T.S.	OOK COME	Manian OCD 4 Kining Kanilling and A	lu Dubereit 1	0. V	Manine To
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN The identification and signature of the perso				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Buivari No:1	9 runusemre – I	vianisa, Turkey
The latitudation and signature of the person	cinpowere	a to pilla tile	э заррнег,	Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
-				TURKEY			

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	220	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.75	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.75	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	ı		Supplementary heater		1	
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	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	1920	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							_
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	i empowere	u io biiia the	s supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
				TURKEY			

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

 $[\]bullet \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST17D-***BD			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	133	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio f	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	ure Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.21	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive 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	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	4860	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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

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



Kenichi SAITO

Manager, Quality Assuarance Department

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

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA				
		Indoor unit:		ERST17D-***BD				
Air-to-water heat pump:				yes				
Water-to-water heat pump:				no				
Brine-to-water heat pump:				no				
Low-temperature heat pump:				no				
Equipped with a supplementary heater:				yes				
Heat pump combination heater:				yes				
Parameters for				low-temperature application.				
Parameters for				average climate conditions.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	187	%	
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or		
temperature 20 °C and outdoor temperature	Τј			part load at indoor temperature 20 °C and outdo	or temperatu	re Tj		
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.22	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-	
Degradation co-efficient (**)	Cdh	0.98	-				ı	
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.90	-	
Degradation co-efficient (**)	Cdh	0.97	-			<u> </u>	ı	
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.52	-	
Degradation co-efficient (**)	Cdh	0.95	-				!	
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.65	-	
							!	
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	ive mode	ļ		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	-	2220	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				ı	
Annual energy consumption	Q_{HE}	3487	kWh					
For heat pump combination heater:		•						
Declared load profile		L		Water heating energy efficiency	ηwh	134	%	
Daily electricity consumption	Qelec	4.000	kWh				•	
Annual electricity consumption	AEC	880	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zoi	lu Bulvari No:19	9 Yunusemre – I	Manisa, Turkey	
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO				

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

TURKEY

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

 $[\]cdot \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA					
		Indoor unit:		ERST17D-***BD					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				medium-temperature application.					
Parameters for				colder climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	115	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or Or			
temperature 20 °C and outdoor temperature	Τј			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj			
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.65	-		
Degradation co-efficient (**)	Cdh	0.99	-				ı		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.45	-		
Degradation co-efficient (**)	Cdh	0.98	-			ļ	<u>.</u>		
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.78	_		
Degradation co-efficient (**)	Cdh	0.98	-			Ļ	!		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.74	-		
Degradation co-efficient (**)	Cdh	0.95	-				!		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.51	-		
Tj = operation limit temperature (***)	Pdh	5.3	kW	Tj = operation limit temperature (***)	COPd	1.41	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.51	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater					
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	2.7	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	-	2220	m³/h		
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB						
Annual energy consumption	Q_{HE}	6689	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh						
Annual electricity consumption	AEC	1060	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the perso	n empowere	a to bind the	e supplier;	Kenichi SAITO					

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

TURKEY

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

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

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

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

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

Model(s):		Outdoor unit		PUZ-SHWM80YAA					
		Indoor unit:		ERST17D-***BD					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				low-temperature application.					
Parameters for				colder climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	146	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.53	-		
Degradation co-efficient (**)	Cdh	0.98	-				ı		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	4.30	-		
Degradation co-efficient (**)	Cdh	0.98	-				!		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.56	_		
Degradation co-efficient (**)	Cdh	0.97	-				ı		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.56	-		
Degradation co-efficient (**)	Cdh	0.95	-				ı		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.05	-		
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.05	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater					
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.6	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	-	2220	m³/h		
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB						
Annual energy consumption	Q_{HE}	5284	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh						
Annual electricity consumption	AEC	1060	kWh						
Contact details	_								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the perso	ıı empowere	u to bina the	supplier;	Kenichi SAITO					

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

Manager, Quality Assuarance Department

TURKEY

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

[•] 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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST17D-***BD			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	170	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-			,	!
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.05	-
Degradation co-efficient (**)	Cdh	0.99	-			-	!
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	6.02	-
Degradation co-efficient (**)	Cdh	0.97	-				!
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.05	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive 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	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	2469	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details		unies :			. 5		
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the person	ii eiiipowere	u io pina tne	s supplier;	Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
-				TURKEY			

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

 $[\]bullet \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST17D-***BD			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	232	%
Declared capacity for heating for part load at	indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature T	· j			part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-			· · · · · · · · · · · · · · · · · · ·	
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.75	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.75	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than activ	ve 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	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	1823	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANU				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	empowered	ט ג o טותa the	supplier;	Kenichi SAITO			
The signature is signed in the average climater	ate / mediur	m-temperatu	ire section.	Manager, Quality Assuarance Department			

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST17D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	133	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	ıre Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-				ļ.
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.21	-
Degradation co-efficient (**)	Cdh	0.98	-			-	l
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.98	-				!
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
D: 1	- 1.	10	1		TO !		
Bivalent temperature Reference design conditions for space	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac		Г	Г	Supplementary heater		1	
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	Рск	0.000	kW				
Other items	1					1	
Capacity control		variable	ı	Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_HE	4860	kWh				
For heat pump combination heater:	ı					· · · · · · · · · · · · · · · · · · ·	
Declared load profile		L	T	Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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

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



Kenichi SAITO

Manager, Quality Assuarance Department

TURKEY

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST17D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	187	%
Declared capacity for heating for part load a	at indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	<u>, </u>
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-				ı
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				ı
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0.97	-				'
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.52	-
Degradation co-efficient (**)	Cdh	0.95	-				'
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.65	-
			-				-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive 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	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	3487	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey
The identification and signature of the person	n empowere	ed to bind the	e supplier;	Kenichi SAITO			
The attendance to attend at the second of the	4 - 1 1 !			Managar Quality Assurance Department			

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

Manager, Quality Assuarance Department

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

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA					
		Indoor unit:		ERST17D-***D					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				medium-temperature application.					
Parameters for				colder climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	115	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or Or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj			
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.65	-		
Degradation co-efficient (**)	Cdh	0.99	-				ı		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.45	-		
Degradation co-efficient (**)	Cdh	0.98	-			ļ	<u>.</u>		
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.78	_		
Degradation co-efficient (**)	Cdh	0.98	-			ļ	ı		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.74	-		
Degradation co-efficient (**)	Cdh	0.95	-				!		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.51	-		
Tj = operation limit temperature (***)	Pdh	5.3	kW	Tj = operation limit temperature (***)	COPd	1.41	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.51	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater					
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.7	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	-	2220	m³/h		
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB						
Annual energy consumption	Q_{HE}	6689	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh						
Annual electricity consumption	AEC	1060	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the perso	n empowere	a to bind the	e supplier;	Kenichi SAITO					

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

Manager, Quality Assuarance Department

TURKEY

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

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

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

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

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

Model(s):		Outdoor unit		PUZ-SHWM80YAA					
		Indoor unit:		ERST17D-***D					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				low-temperature application.					
Parameters for				colder climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	146	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.53	-		
Degradation co-efficient (**)	Cdh	0.98	-				ı		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	4.30	-		
Degradation co-efficient (**)	Cdh	0.98	-				<u>.</u>		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.56	_		
Degradation co-efficient (**)	Cdh	0.97	-				ı		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.56	-		
Degradation co-efficient (**)	Cdh	0.95	-				ı		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.05	-		
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-		
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.05	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater					
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	2.6	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	-	2220	m³/h		
Sound power level, indoors/outdoors	L_WA	41 / 54	dB						
Annual energy consumption	Q_{HE}	5284	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh						
Annual electricity consumption	AEC	1060	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the perso	n empowere	u to bina the	supplier;	Kenichi SAITO					

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

Manager, Quality Assuarance Department

TURKEY

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

[•] 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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST17D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	170	%
Declared capacity for heating for part load at	indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature T	j			part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-			· · · · · · · · · · · · · · · · · · ·	
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.05	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	6.02	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.05	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than activ	ve 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	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	2469	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANU				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	empowered	u io bina the	supplier;	Kenichi SAITO			
The signature is signed in the average climater	ate / mediur	m-temperatu	ire section.	Manager, Quality Assuarance Department			

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST17D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	232	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.99	-			-	
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.75	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.75	-
		-	•				ı
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive 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	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	1823	kWh				
For heat pump combination heater:	Ţ					1	
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details	II IEAOTI IE =	HDKEY 10.0. T.S.	OOK COME	Manian OCD 4 Kining Kanilling and A	do Dobresia i	0. V	Manine To
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN The identification and signature of the perso				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	iu Buivari No:1	9 runusemre – I	vianisa, Turkey
The lactimodulon and signature of the person	cinpowere	a to pilla tile	э заррпет,	Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
-				TURKEY			

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

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

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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		Indoor unit:		ERST20D-***D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	133	%
Declared capacity for heating for part load a	t indoor		!	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoor	or temperatu	ıre Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-				l
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.21	-
Degradation co-efficient (**)	Cdh	0.98	-			-	l
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.98	-				!
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	6.09	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.83	-
			1 -				l <u>-</u>
Bivalent temperature Reference design conditions for space	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode	1	1	Supplementary heater		1	
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	Рск	0.000	kW				
Other items						1	
Capacity control		variable	1	Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	4860	kWh				
For heat pump combination heater:						1	
Declared load profile		L	1	Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

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

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



Kenichi SAITO

Manager, Quality Assuarance Department

TURKEY

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

[•] 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 the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	187	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatur	те Тј	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-		'	•	
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-		'		
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0.97	-		!		
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.52	-
Degradation co-efficient (**)	Cdh	0.95	-		!		
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.65	-
					'	•	
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	ļ		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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB		'		
Annual energy consumption	Q_{HE}	3487	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details		-					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	iu Bulvari No:19	Yunusemre – I	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			

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

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

 $[\]cdot \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA			
		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.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	115	%
Declared capacity for heating for part load a	at indoor	Į	<u> </u>	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.45	_
Degradation co-efficient (**)	Cdh	0.98	-			<u> </u>	l
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.78	_
Degradation co-efficient (**)	Cdh	0.98	-			<u> </u>	
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.74	_
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.51	-
Tj = operation limit temperature (***)	Pdh	5.3	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.51	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode			Supplementary heater		•	l
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	2.7	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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				•
Annual energy consumption	Q_{HE}	6689	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre –	Manisa, Turkey
The identification and signature of the perso	n empowered	a to bind the	e supplier;	Kenichi SAITO			

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

Manager, Quality Assuarance Department

TURKEY

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

 $[\]cdot \ \, \text{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

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

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

Model(s):		Outdoor unit	:	PUZ-SHWM80YAA					
		Indoor unit:		ERST20D-***D					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				low-temperature application.					
Parameters for				colder climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	146	%		
Declared capacity for heating for part load a	t indoor	•	•	Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.53	-		
Degradation co-efficient (**)	Cdh	0.98	-				ı		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	4.30	-		
Degradation co-efficient (**)	Cdh	0.98	-				!		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.56	_		
Degradation co-efficient (**)	Cdh	0.97	-			<u></u>	!		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.56	-		
Degradation co-efficient (**)	Cdh	0.95	-				!		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.05	-		
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.05	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater					
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	2.6	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	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB						
Annual energy consumption	Q_{HE}	5284	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	109	%		
Daily electricity consumption	Qelec	4.750	kWh						
Annual electricity consumption	AEC	1044	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	du Bulvari No:1	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the perso	n empowere	a to bind the	e supplier;	Kenichi SAITO					

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

TURKEY

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

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

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

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

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

Model(s):		Outdoor unit:		PUZ-SHWM80YAA				
		Indoor unit:		ERST20D-****D				
Air-to-water heat pump:				yes				
Water-to-water heat pump:				no				
Brine-to-water heat pump:				no				
Low-temperature heat pump:				no				
Equipped with a supplementary heater:				yes				
Heat pump combination heater:				yes				
Parameters for				medium-temperature application.				
Parameters for			warmer climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	170	%	
Declared capacity for heating for part load a	t indoor	•	Declared coefficient of performance or primary energy ratio for					
temperature 20 °C and outdoor temperature T j				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	8.0	kW	Tj = + 2 °C	COPd	2.05	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.60	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	6.02	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.05	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.05	-	
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C	
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	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	-	2220	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB					
Annual energy consumption	Q_{HE}	2469	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	139	%	
Daily electricity consumption	Qelec	3.820	kWh					
Annual electricity consumption	AEC	841	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey	
The identification and signature of the person	i empowere	u io biiia the	s supplier;	Kenichi SAITO				
The signature is signed in the average climate / medium-temperature section.				Manager, Quality Assuarance Department				
			<u> </u>	TURKEY				

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

 $[\]bullet \ \, \text{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

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

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

Model(s):		Outdoor unit:		PUZ-SHWM80YAA					
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	232	%		
Declared capacity for heating for part load a	t indoor	•	Declared coefficient of performance or primary energy ratio for						
temperature 20 °C and outdoor temperature T j				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	8.0	kW	Tj = + 2 °C	COPd	3.75	-		
Degradation co-efficient (**)	Cdh	0.99	-						
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.20	-		
Degradation co-efficient (**)	Cdh	0.98	-						
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.34	-		
Degradation co-efficient (**)	Cdh	0.97	-						
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.75	-		
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.75	-		
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	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	-	2220	m³/h		
Sound power level, indoors/outdoors	L_WA	41 / 54	dB						
Annual energy consumption	Q_{HE}	1823	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	139	%		
Daily electricity consumption	Qelec	3.820	kWh			_			
Annual electricity consumption	AEC	841	kWh						
Contact details							–		
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre – Manisa, Turkey The identification and signature of the person empowered to bind the supplier;									
The Identification and signature of the perso	i empowere	u io biiia the	s supplier;	Kenichi SAITO					
The signature is signed in the average climate / medium-temperature section.				Manager, Quality Assuarance Department					
				TURKEY					

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

 $[\]bullet \ \, \text{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

^(**) 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.