



Air to Water Heat Pumps **Matrix**



Product fiche

Energy labelling regulation: (EU)811/2013

Ecodesign regulation: (EU)813/2013

Heat pump combination heater Matrix		Outdoor	ATS04S	ATS04S	ATS06S	ATS06S	ATS08S	ATS08S	ATS10S
		Indoor	HU100WT190S3	HU100WT240S3	HU100WT190S3	HU100WT240S3	HU100WT190S3	HU100WT240S3	HU100WT190S3
Indoor unit sound power(*)		dB	38	38	38	38	40	40	40
Outdoor unit sound power(*)		dB	56	56	58	58	59	59	60
Water heating	Declared load profile	-	L	XL	L	XL	L	XL	L
	Energy efficiency class	-	A+	A+	A+	A+	A+	A+	A+
Space heating	Energy efficiency class at 55°C (High temp. app.)	-	A++	A++	A++	A++	A++	A++	A++
Average climate									
Water heating	Water heating energy efficiency (η_{wh})	[%]	127	136	127	136	125	137	125
	Annual electricity consumption (AEC)	[kWh]	801	1229	801	1229	820	1218	820
Space heating	P_{rated} (declared heating capacity)@-10°C	[kW]	4.4	4.4	5.7	5.7	6.6	6.6	7.7
	Seasonal space heating efficiency (η_{sh})	[%]	129.5	129.5	137.9	137.9	131.5	131.5	136.6
	Annual energy consumption	[kWh]	2744	2744	3345	3345	4056	4056	4539
Off-peak operation function integrated in heat pump		Y/N	Y	Y	Y	Y	Y	Y	Y
Colder climate									
Water heating	Water heating energy efficiency (η_{wh})	[%]	102	107	102	107	107	111	107
	Annual energy consumption	[kWh]	998	1561	998	1561	950	1508	950
Space heating	P_{rated} (declared heating capacity)@-22°C	[kW]	3.36	3.36	4.26	4.26	5.77	5.77	6.71
	Seasonal space heating efficiency (η_{sh})	[%]	102.1	102.1	111.1	111.1	112.0	112.0	116.4
	Annual energy consumption	[kWh]	3159	3159	3681	3681	4950	4950	5540
Warmer climate									
Water heating	Water heating energy efficiency (η_{wh})	[%]	157	174	157	174	151	171	151
	Annual energy consumption	[kWh]	649	963	649	963	675	977	675
Space heating	P_{rated} (declared heating capacity)@2°C	[kW]	5.01	5.01	5.14	5.14	8.37	8.37	8.63
	Seasonal space heating efficiency (η_{sh})	[%]	162.4	162.4	164.7	164.7	176.9	176.9	180.3
	Annual energy consumption	[kWh]	1621	1621	1640	1640	2485	2485	2516
Ecodesign technical data									
Product description	Air-to-water heat pump	Y/N	Y	Y	Y	Y	Y	Y	Y
	Water-to-water heat pump	Y/N	N	N	N	N	N	N	N
	Brine-to-water heat pump	Y/N	N	N	N	N	N	N	N
	Low-temperature heat pump	Y/N	N	N	N	N	N	N	N
	Equipped with a supplementary heater	Y/N	Y	Y	Y	Y	Y	Y	Y
	Heat pump combination heater	Y/N	Y	Y	Y	Y	Y	Y	Y
Air-to-water unit	Rated airflow (outdoor)	[m ³ /h]	2770	2770	2770	2770	4030	4030	4030
Brine/water-to-water heat pump	Rated brine/water flow (outdoor H/E)	[m ³ /h]	-	-	-	-	-	-	-

Heat pump combination heater Matrix			Outdoor	ATS10S	ATS12S	ATS12T	ATS14S	ATS14T	ATS16S	ATS16T
			Indoor	HU100WT240S3	HU160WT240S3	HU160WT240T9	HU160WT240S3	HU160WT240T9	HU160WT240S3	HU160WT240T9
Indoor unit sound power(*)			dB	40	42	42	44	44	44	44
Outdoor unit sound power(*)			dB	60	64	64	65	65	68	68
Water heating	Declared load profile	-	XL	XL	XL	XL	XL	XL	XL	XL
	Energy efficiency class	-	A+	A+	A+	A+	A+	A+	A+	A+
Space heating	Energy efficiency class at 55°C (High temp. app.)	-	A++	A++	A++	A++	A++	A++	A++	A++
Average climate										
Water heating	Water heating energy efficiency (η_{wh})	[%]	137	123	123	123	123	123	123	123
	Annual electricity consumption (AEC)	[kWh]	1218	1360	1360	1360	1360	1360	1360	1360
Space heating	P_{rated} (declared heating capacity)@-10°C	[kW]	7.7	11.6	11.6	12.1	12.1	13.0	13.0	13.0
	Seasonal space heating efficiency(η_{sh})	[%]	136.6	135.1	135.1	135.6	135.6	133.3	133.2	133.2
	Annual energy consumption	[kWh]	4539	6927	6928	7202	7203	7895	7896	7896
Off-peak operation function integrated in heat pump			Y/N	Y	Y	Y	Y	Y	Y	Y
Colder climate										
Water heating	Water heating energy efficiency (η_{wh})	[%]	111	92	92	92	92	92	92	92
	Annual energy consumption	[kWh]	1508	1822	1822	1822	1822	1822	1822	1822
Space heating	P_{rated} (declared heating capacity)@-22°C	[kW]	6.71	10.31	10.3	10.96	11	11.8	11.8	11.8
	Seasonal space heating efficiency(η_{sh})	[%]	116.4	117.8	117.7	118.9	118.9	121.8	121.8	121.8
	Annual energy consumption	[kWh]	5540	8419	8420	8866	8867	9309	9310	9310
Warmer climate										
Water heating	Water heating energy efficiency (η_{wh})	[%]	171	153	153	153	153	153	153	153
	Annual energy consumption	[kWh]	977	1088	1088	1088	1088	1088	1088	1088
Space heating	P_{rated} (declared heating capacity)@2°C	[kW]	8.63	12.5	12.5	14.17	14.17	14.17	14.17	14.17
	Seasonal space heating efficiency(η_{sh})	[%]	180.3	174.0	173.8	174.9	174.7	176.0	175.8	175.8
	Annual energy consumption	[kWh]	2516	3776	3780	4258	4262	4231	4236	4236
Ecodesign technical data										
Product description	Air-to-water heat pump	Y/N	Y	Y	Y	Y	Y	Y	Y	Y
	Water-to-water heat pump	Y/N	N	N	N	N	N	N	N	N
	Brine-to-water heat pump	Y/N	N	N	N	N	N	N	N	N
	Low-temperature heat pump	Y/N	N	N	N	N	N	N	N	N
	Equipped with a supplementary heater	Y/N	Y	Y	Y	Y	Y	Y	Y	Y
	Heat pump combination heater	Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Air-to-water unit	Rated airflow (outdoor)	[m³/h]	4030	4060	4060	4060	4060	4650	4650	4650
Brine/water-to-water heat pump	Rated brine/water flow (outdoor H/E)	[m³/h]	-	-	-	-	-	-	-	-