Product data sheet (in accordance with EU regulation no. 811/2013, 812/2013, 813/2013 and 814/2013) .

Technical parameters for heat pump space heaters and temperature control packages		208671	208672	208673		
Model	Conditions	Morix S 400V	Morix S-E 400V	Morix M 400V	Symbol	Unit
harmonised standard	EN 14825, EN 12102					
Air to water heat pump		NO	NO	NO		
Water-to-water heat pump		YES	YES	YES		
Brine-to water heat pump		YES	YES	YES		
Low Temperature Heat pump		NO	NO	NO		
Equipped with supplementary heater		NO / (YES)*	YES	NO / (YES)*		
Heat pump combination heater		NO**	NO**	NO**		
Built in temperature control class		II	II	II		
Built in temperature control contribution to energy efficiency		2,0	2,0	2,0		%
Rated heat output	(average climate conditions)	28	28	41	Prated	kW
Rated heat output	(colder climate conditions)	28	28	41	Prated	kW
Rated heat output	(warmer climate conditions)	28	28	41	Prated	kW
Rated heat output	(low temperature applications average climate conditions)	30	30	45	Prated	kW
Rated heat output	(low temperature applications colder climate conditions)	30	30	45	Prated	kW
Rated heat output	(low temperature applications warmer climate conditions)	30	30	45	Prated	kW
SCOP	(average climate conditions)	3,95	3,95	4,02		
SCOP	(colder climate conditions)	4,06	4,06	4,13		
SCOP	(warmer climate conditions)	3,99	3,99	4,07		
SCOP	(low temperature applications average climate conditions)	4,95	4,95	5,13		
SCOP	(low temperature applications colder climate conditions)	5,16	5,16	5,32		
SCOP	(low temperature applications warmer climate conditions)	5,04	5,04	5,18		
Seasonal space heating Energy efficiency	(average climate conditions)	150	150	153	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(average climate conditions)	152	152	155	ηs	%
Seasonal space heating Energy efficiency	(colder climate conditions)	154	154	157	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(colder climate conditions)	156	156	159	ηs	%
Seasonal space heating Energy efficiency	(warmer climate conditions)	152	152	155	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(warmer climate conditions)	154	154	157	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications average climate conditions)	190	190	197	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications average climate conditions)	192	192	199	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications colder climate conditions)	198	198	205	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications colder climate conditions)	200	200	207	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications warmer climate conditions)	194	194	199	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications warmer climate conditions)	196	196	201	ηs	%
Energy efficiency class		A+++	A+++	A+++		
Energy efficiency class built in temperature control package		A+++	A+++	A+++		
Energy efficiency class	(low temperature applications)	A+++	A+++	A+++		
Energy efficiency class built in temperature control package	(low temperature applications)	A+++	A+++	A+++		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = -7 °C	(average climate conditions)	25,0	25,0	36,1	Pdh	kW
Tj = -7 °C	(colder climate conditions)	17,1	17,1	24,7	Pdh	kW
Tj = -7 °C	(warmer climate conditions)	NA	NA	NA	Pdh	kW
Tj = -7 °C	(low temperature applications average climate conditions)	26,4	26,4	39,7	Pdh	kW
Tj = -7 °C	(low temperature applications colder climate conditions)	18,0	18,0	27,1	Pdh	kW
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	Pdh	kW
Tj = +2 °C	(average climate conditions)	15,2	15,2	22,0	Pdh	kW
Tj = +2 °C	(colder climate conditions)	10,4	10,4	15,1	Pdh	kW
Tj = +2 °C	(warmer climate conditions)	28,2	28,2	40,9	Pdh	kW
Tj = +2 °C	(low temperature applications average climate conditions)	16,0	16,0	24,1	Pdh	kW
Tj = +2 °C	(low temperature applications colder climate conditions)	11,0	11,0	16,5	Pdh	kW
Tj = +2 °C	(low temperature applications warmer climate conditions)	29,8	29,8	44,8	Pdh	kW
Tj = +7 °C	(average climate conditions)	9,8	9,8	16,3	Pdh	kW
Tj = +7 °C	(colder climate conditions)	8,0	8,0	12,8	Pdh	kW
Tj = +7 °C	(warmer climate conditions)	18,1	18,1	26,3	Pdh	kW
Tj = +7 °C	(low temperature applications average climate conditions)	10,3	10,3	15,5	Pdh	kW
Tj = +7 °C	(low temperature applications colder climate conditions)	8,1	8,1	13,5	Pdh	kW
Tj = +7 °C	(low temperature applications warmer climate conditions)	19,2	19,2	28,8	Pdh	kW
Tj = +12 °C	(average climate conditions)	8,0	8,0	12,9	Pdh	kW
Tj = +12 °C	(colder climate conditions)	8,0	8,0	12,9	Pdh	kW
Tj = +12 °C	(warmer climate conditions)	8,1	8,1	11,7	Pdh	kW
Tj = +12 °C	(low temperature applications average climate conditions)	8,1	8,1	13,4	Pdh	kW

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Tj = +12 °C	(low temperature applications colder climate conditions)	8,0	8,0	13,2	Pdh	kW
Tj = +12 °C	(low temperature applications warmer climate conditions)	8,5	8,5	12,8	Pdh	kW
Tj = bivalent temperature	(average climate conditions)	28,2	28,2	40,9	Pdh	kW
Tj = bivalent temperature	(colder climate conditions)	28,2	28,2	40,9	Pdh	kW
Tj = bivalent temperature	(warmer climate conditions)	28,2	28,2	40,9	Pdh	kW
Tj = bivalent temperature	(low temperature applications average climate conditions)	29,8	29,8	44,8	Pdh	kW
Tj = bivalent temperature	(low temperature applications colder climate conditions)	29,8	29,8	44,8	Pdh	kW
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	29,8	29,8	44,8	Pdh	kW
Tj = operation limit temperature	(average climate conditions)	28,2	28,2	40,9	Pdh	kW
Tj = operation limit temperature	(colder climate conditions)	28,2	28,2	40,9	Pdh	kW
Tj = operation limit temperature	(warmer climate conditions)	28,2	28,2	40,9	Pdh	kW
Tj = operation limit temperature	(low temperature applications average climate conditions)	29,8	29,8	44,8	Pdh	kW
Tj = operation limit temperature	(low temperature applications colder climate conditions)	29,8	29,8	44,8	Pdh	kW
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	29,8	29,8	44,8	Pdh	kW
Bivalent temperature	(average climate conditions)	-10	-10	-10	Tbiv	°C
Bivalent temperature	(colder climate conditions)	-22	-22	-22	Tbiv	°C
Bivalent temperature	(warmer climate conditions)	2	2	2	Tbiv	°C
Bivalent temperature	(low temperature applications average climate conditions)	-10	-10	-10	Tbiv	°C
Bivalent temperature	(low temperature applications colder climate conditions)	-22	-22	-22	Tbiv	°C
Bivalent temperature	(low temperature applications warmer climate conditions)	2	2	2	Tbiv	°C
Degradation coefficient Tj= -7 °C	(low temperature applications average climate conditions)	1,0	1,0	1,0	Pdh	
Degradation coefficient Tj= -7 °C	(low temperature applications colder climate conditions)	1,0	1,0	1,0	Pdh	
Degradation coefficient Tj= -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	Pdh	
Degradation coefficient Tj= -7 °C	(average climate conditions)	1,0	1,0	1,0	Pdh	
Degradation coefficient Tj= -7 °C	(colder climate conditions)	1,0	1,0	1,0	Pdh	
Degradation coefficient Tj= -7 °C	(warmer climate conditions)	NA	NA	NA	Pdh	
Degradation coefficient Tj= +2 °C	(low temperature applications average climate conditions)	1,0	1,0	1,0	Pdh	
Degradation coefficient Tj= +2 °C	(low temperature applications colder climate conditions)	1,0	1,0	1,0	Pdh	
Degradation coefficient Tj= +2 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	Pdh	
Degradation coefficient Tj= +2 °C	(average climate conditions)	1,0	1,0	1,0	Pdh	
Degradation coefficient Tj= +2 °C	(colder climate conditions)	1,0	1,0	1,0	Tbiv	
Degradation coefficient Tj= +2 °C	(warmer climate conditions)	NA	NA	NA	Tbiv	
Degradation coefficient Tj= +7 °C	(low temperature applications average climate conditions)	1,0	1,0	1,0	Tbiv	
Degradation coefficient Tj= +7 °C	(low temperature applications colder climate conditions)	1,0	1,0	1,0	Tbiv	
Degradation coefficient Tj= +7 °C	(low temperature applications warmer climate conditions)	1,0	1,0	1,0	Tbiv	
Degradation coefficient Tj= +7 °C	(average climate conditions)	1,0	1,0	1,0	Tbiv	
Degradation coefficient Tj= +7 °C	(colder climate conditions)	1,0	1,0	1,0	Cdh	
Degradation coefficient Tj= +7 °C	(low temperature applications colder climate conditions)	1,0	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(average climate conditions)	1,0	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(colder climate conditions)	1,0	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(warmer climate conditions)	1,0	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications average climate conditions)	1,0	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications colder climate conditions)	1,0	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications warmer climate conditions)	1,0	1,0	1,0	Cdh	
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj						
Tj = -7 °C	(average climate conditions)	2,96	2,96	2,93	COPd	
Tj = -7 °C	(colder climate conditions)	3,71	3,71	3,78	COPd	
Tj = -7 °C	(warmer climate conditions)	NA	NA	NA	COPd	
Tj = -7 °C	(low temperature applications average climate conditions)	4,06	4,06	4,21	COPd	
Tj = -7 °C	(low temperature applications colder climate conditions)	4,87	4,87	5,06	COPd	
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	COPd	
Tj = +2 °C	(average climate conditions)	3,92	3,92	4,06	COPd	
Tj = +2 °C	(colder climate conditions)	4,46	4,46	4,54	COPd	
Tj = +2 °C	(warmer climate conditions)	2,67	2,67	2,64	COPd	
Tj = +2 °C	(low temperature applications average climate conditions)	4,97	4,97	5,16	COPd	
Tj = +2 °C	(low temperature applications colder climate conditions)	5,56	5,56	5,76	COPd	
Tj = +2 °C	(low temperature applications warmer climate conditions)	3,74	3,74	3,71	COPd	
Tj = +7 °C	(average climate conditions)	4,59	4,59	4,80	COPd	
Tj = +7 °C	(colder climate conditions)	4,89	4,89	5,00	COPd	
Tj = +7 °C	(warmer climate conditions)	3,55	3,55	3,60	COPd	
Tj = +7 °C	(low temperature applications average climate conditions)	5,64	5,64	5,82	COPd	
Tj = +7 °C	(low temperature applications colder climate conditions)	5,89	5,89	5,89	COPd	

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Tj = +7 °C	(low temperature applications warmer climate conditions)	4,71	4,71	4,90	COPd	
Tj = +12 °C	(average climate conditions)	4,84	4,84	4,95	COPd	
Tj = +12 °C	(colder climate conditions)	4,92	4,92	5,07	COPd	
Tj = +12 °C	(warmer climate conditions)	4,88	4,88	5,01	COPd	
Tj = +12 °C	(low temperature applications average climate conditions)	5,80	5,80	5,84	COPd	
Tj = +12 °C	(low temperature applications colder climate conditions)	5,65	5,65	5,72	COPd	
Tj = +12 °C	(low temperature applications warmer climate conditions)	5,85	5,85	5,91	COPd	
Tj = bivalent temperature	(average climate conditions)	2,67	2,67	2,64	COPd	
Tj = bivalent temperature	(colder climate conditions)	2,67	2,67	2,64	COPd	
Tj = bivalent temperature	(warmer climate conditions)	2,67	2,67	2,64	COPd	
Tj = bivalent temperature	(low temperature applications average climate conditions)	3,74	3,74	3,71	COPd	
Tj = bivalent temperature	(low temperature applications colder climate conditions)	3,74	3,74	3,71	COPd	
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	3,74	3,74	3,71	COPd	
Tj = operation limit temperature	(average climate conditions)	2,67	2,67	2,64	COPd	
Tj = operation limit temperature	(colder climate conditions)	2,67	2,67	2,64	COPd	
Tj = operation limit temperature	(warmer climate conditions)	2,67	2,67	2,64	COPd	
Tj = operation limit temperature	(low temperature applications average climate conditions)	3,74	3,74	3,71	COPd	
Tj = operation limit temperature	(low temperature applications colder climate conditions)	3,74	3,74	3,71	COPd	
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	3,74	3,74	3,71	COPd	
Heating water operating limit temperature		75	75	75	WTOL	°C
Power consumption in other mode than active						
Off mode		0,016	0,016	0,021	POFF	kW
Thermostat off mode		0,025	0,025	0,031	PTO	kW
Standby mode		0,016	0,016	0,021	PSB	kW
Crankcase heater mode		0,023	0,023	0,026	PCK	kW
Supplementary heater						
Rated heat output	(average climate conditions)	0,0	0,0	0,0	Psup	kW
Rated heat output	(colder climate conditions)	0,0	0,0	0,0	Psup	kW
Rated heat output	(warmer climate conditions)	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications average climate conditions)	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications colder climate conditions)	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications warmer climate conditions)	0,0	0,0	0,0	Psup	kW
Type of energy input		Electrical	Electrical	Electrical		
Other items						
Capacity control		Capacity controlled	Capacity controlled	Capacity controlled		
Sound power levels indoors		46	46	49	LWA	dB
Annual energy consumption	(average climate conditions)	14914	14914	20969	QHE	kWh
Annual energy consumption	(colder climate conditions)	17133	17133	24393	QHE	kWh
Annual energy consumption	(warmer climate conditions)	9447	9447	13402	QHE	kWh
Annual energy consumption	(low temperature applications average climate conditions)	12426	12426	18054	QHE	kWh
Annual energy consumption	(low temperature applications colder climate conditions)	14237	14237	20777	QHE	kWh
Annual energy consumption	(low temperature applications warmer climate conditions)	7903	7903	11570	QHE	kWh
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(average climate conditions)	5	5	7		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(colder climate conditions)	5	5	7		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(warmer climate conditions)	5	5	7		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications average climate conditions)	6	6	9		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications colder climate conditions)	6	6	9		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications warmer climate conditions)	6	6	9		m3/h
Possibility to run only during off peak hours		NO	NO	NO		
* Depends on system solution - possible to add supplementary heater						
** Depends on system solutions - possible to operate as a heat pump combined heater						
PRECAUTIONS	All specific precautions for assembly, installation and maintenance are described in the operating and installation instructions.Read and follow the operating and installation instructions.					