

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		203229 203237	203230 203238	203231	203232		
Model	Conditions	Mega S 2020 Mega S 3-230 2020	Mega M 2020 Mega M 3-230 2020	Mega L 2020	Mega XL 2020	Symbol	Unit
harmonised standard	EN 14825, EN 12102						
Air to water heat pump		NO	NO	NO	NO		
Water-to-water heat pump		YES	YES	YES	YES		
Brine-to water heat pump		YES	YES	YES	YES		
Low Temperature Heat pump		NO	NO	NO	NO		
Equipped with supplementary heater		NO / (YES)*	NO / (YES)*	NO / (YES)*	NO / (YES)*		
Heat pump combination heater		NO**	NO**	NO**	NO**		
Built in temperature control class		II	II	II	II		
Built in temperature control contribution to energy efficiency							%
Rated heat output	(average climate conditions)	31	36	55	79	Prated	kW
Rated heat output	(colder climate conditions)	31	36	55	79	Prated	kW
Rated heat output	(warmer climate conditions)	31	36	55	79	Prated	kW
Rated heat output	(low temperature applications average climate conditions)	33	38	60	85	Prated	kW
Rated heat output	(low temperature applications colder climate conditions)	33	38	60	85	Prated	kW
Rated heat output	(low temperature applications warmer climate conditions)	33	38	60	85	Prated	kW
SCOP	(average climate conditions)	4,18	4,39	4,07	4,13		
SCOP	(colder climate conditions)	4,33	4,55	4,20	4,32		
SCOP	(warmer climate conditions)	4,19	4,38	4,13	4,21		
SCOP	(low temperature applications average climate conditions)	5,55	5,65	5,19	5,17		
SCOP	(low temperature applications colder climate conditions)	5,72	5,86	5,29	5,30		
SCOP	(low temperature applications warmer climate conditions)	5,54	5,70	5,28	5,25		
Seasonal space heating Energy efficiency	(average climate conditions)	159	168	155	157	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(average climate conditions)	161	170	157	159	ηs	%
Seasonal space heating Energy efficiency	(colder climate conditions)	165	174	160	165	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(colder climate conditions)	167	176	162	167	ηs	%
Seasonal space heating Energy efficiency	(warmer climate conditions)	160	167	157	160	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(warmer climate conditions)	162	169	159	162	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications average climate conditions)	214	218	200	199	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications average climate conditions)	216	220	202	201	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications colder climate conditions)	221	226	204	204	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications colder climate conditions)	223	228	206	206	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications warmer climate conditions)	214	220	203	202	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications warmer climate conditions)	216	222	205	204	ηs	%
Energy efficiency class		A+++	A+++	A+++			

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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)	27,5	31,5	49,0	69,9	Pdh	kW
Tj = -7 °C	(colder climate conditions)	18,8	21,6	33,8	48,5	Pdh	kW
Tj = -7 °C	(warmer climate conditions)	NA	NA	NA	NA	Pdh	kW
Tj = -7 °C	(low temperature applications average climate conditions)	29,4	33,7	52,8	74,9	Pdh	kW
Tj = -7 °C	(low temperature applications colder climate conditions)	20,1	23,0	35,8	51,3	Pdh	kW
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	Pdh	kW
Tj = +2 °C	(average climate conditions)	16,8	19,2	29,8	42,5	Pdh	kW
Tj = +2 °C	(colder climate conditions)	11,5	13,1	20,4	29,1	Pdh	kW
Tj = +2 °C	(warmer climate conditions)	31,1	35,6	55,3	79,0	Pdh	kW
Tj = +2 °C	(low temperature applications average climate conditions)	17,9	20,5	32,1	45,6	Pdh	kW
Tj = +2 °C	(low temperature applications colder climate conditions)	12,3	14,0	22,0	31,2	Pdh	kW
Tj = +2 °C	(low temperature applications warmer climate conditions)	33,3	38,1	59,6	84,7	Pdh	kW
Tj = +7 °C	(average climate conditions)	10,8	12,3	19,2	27,4	Pdh	kW
Tj = +7 °C	(colder climate conditions)	12,1	12,6	16,4	24,1	Pdh	kW
Tj = +7 °C	(warmer climate conditions)	20,0	22,9	35,6	50,8	Pdh	kW
Tj = +7 °C	(low temperature applications average climate conditions)	11,5	13,2	20,6	29,3	Pdh	kW
Tj = +7 °C	(low temperature applications colder climate conditions)	12,5	12,7	16,7	24,5	Pdh	kW
Tj = +7 °C	(low temperature applications warmer climate conditions)	21,4	24,5	38,3	54,4	Pdh	kW
Tj = +12 °C	(average climate conditions)	12,2	12,6	16,3	24,1	Pdh	kW
Tj = +12 °C	(colder climate conditions)	12,2	12,6	16,4	24,2	Pdh	kW
Tj = +12 °C	(warmer climate conditions)	12,1	12,5	15,8	24,1	Pdh	kW
Tj = +12 °C	(low temperature applications average climate conditions)	12,5	12,7	16,6	24,4	Pdh	kW
Tj = +12 °C	(low temperature applications colder climate conditions)	12,5	12,7	16,6	24,4	Pdh	kW
Tj = +12 °C	(low temperature applications warmer climate conditions)	12,5	12,7	17,0	24,2	Pdh	kW
Tj = bivalent temperature	(average climate conditions)	31,1	35,6	55,3	79,0	Pdh	kW
Tj = bivalent temperature	(colder climate conditions)	31,1	35,6	55,3	79,0	Pdh	kW
Tj = bivalent temperature	(warmer climate conditions)	31,1	35,6	55,3	79,0	Pdh	kW
Tj = bivalent temperature	(low temperature applications average climate conditions)	33,3	38,1	59,6	84,7	Pdh	kW
Tj = bivalent temperature	(low temperature applications colder climate conditions)	33,3	38,1	59,6	84,7	Pdh	kW
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	33,3	38,1	59,6	84,7	Pdh	kW
Tj = operation limit temperature	(average climate conditions)	31,1	35,6	55,3	79,0	Pdh	kW

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T _j = operation limit temperature	(colder climate conditions)	31,1	35,6	55,3	79,0	Pdh	kW
T _j = operation limit temperature	(warmer climate conditions)	31,1	35,6	55,3	79,0	Pdh	kW
T _j = operation limit temperature	(low temperature applications average climate conditions)	33,3	38,1	59,6	84,7	Pdh	kW
T _j = operation limit temperature	(low temperature applications colder climate conditions)	33,3	38,1	59,6	84,7	Pdh	kW
T _j = operation limit temperature	(low temperature applications warmer climate conditions)	33,3	38,1	59,6	84,7	Pdh	kW
Bivalent temperature	(average climate conditions)	-10	-10	-10	-10	Tbiv	°C
Bivalent temperature	(colder climate conditions)	-22	-22	-22	-22	Tbiv	°C
Bivalent temperature	(warmer climate conditions)	2	2	2	2	Tbiv	°C
Bivalent temperature	(low temperature applications average climate conditions)	-10	-10	-10	-10	Tbiv	°C
Bivalent temperature	(low temperature applications colder climate conditions)	-22	-22	-22	-22	Tbiv	°C
Bivalent temperature	(low temperature applications warmer climate conditions)	2	2	2	2	Tbiv	°C
Degradation coefficient T _j = +7 °C	(colder climate conditions)	1,0	1,0	1,0	1,0	Cdh	
Degradation coefficient T _j = +7 °C	(low temperature applications colder climate conditions)	1,0	1,0	1,0	1,0	Cdh	
Degradation coefficient T _j = +12 °C	(average climate conditions)	1,0	1,0	1,0	1,0	Cdh	
Degradation coefficient T _j = +12 °C	(colder climate conditions)	1,0	1,0	1,0	1,0	Cdh	
Degradation coefficient T _j = +12 °C	(low temperature applications average climate conditions)	1,0	1,0	1,0	1,0	Cdh	
Degradation coefficient T _j = +12 °C	(low temperature applications colder climate conditions)	1,0	1,0	1,0	1,0	Cdh	
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T _j							
T _j = -7 °C	(average climate conditions)	3,14	3,21	3,01	3,00	COPd	
T _j = -7 °C	(colder climate conditions)	3,99	4,12	3,85	3,85	COPd	
T _j = -7 °C	(warmer climate conditions)	NA	NA	NA	NA	COPd	
T _j = -7 °C	(low temperature applications average climate conditions)	4,63	4,56	4,26	4,26	COPd	
T _j = -7 °C	(low temperature applications colder climate conditions)	5,49	5,57	5,14	5,06	COPd	
T _j = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	NA	NA	COPd	
T _j = +2 °C	(average climate conditions)	4,21	4,39	4,11	4,08	COPd	
T _j = +2 °C	(colder climate conditions)	4,73	5,02	4,59	4,83	COPd	
T _j = +2 °C	(warmer climate conditions)	2,86	2,95	2,77	2,72	COPd	
T _j = +2 °C	(low temperature applications average climate conditions)	5,57	5,68	5,23	5,14	COPd	
T _j = +2 °C	(low temperature applications colder climate conditions)	6,11	6,27	5,71	5,81	COPd	
T _j = +2 °C	(low temperature applications warmer climate conditions)	4,26	4,29	3,93	3,97	COPd	
T _j = +7 °C	(average climate conditions)	4,84	5,16	4,66	4,94	COPd	
T _j = +7 °C	(colder climate conditions)	5,00	5,32	4,86	5,20	COPd	
T _j = +7 °C	(warmer climate conditions)	3,78	3,89	3,69	3,60	COPd	
T _j = +7 °C	(low temperature applications average climate conditions)	6,11	6,28	5,74	5,81	COPd	

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Tj = +7 °C	(low temperature applications colder climate conditions)	6,13	6,35	5,87	5,86	COPd	
Tj = +7 °C	(low temperature applications warmer climate conditions)	5,30	5,35	5,00	4,85	COPd	
Tj = +12 °C	(average climate conditions)	5,05	5,34	4,84	5,17	COPd	
Tj = +12 °C	(colder climate conditions)	5,20	5,49	4,91	5,30	COPd	
Tj = +12 °C	(warmer climate conditions)	4,86	5,17	4,85	5,17	COPd	
Tj = +12 °C	(low temperature applications average climate conditions)	6,11	6,31	5,59	5,68	COPd	
Tj = +12 °C	(low temperature applications colder climate conditions)	6,01	6,19	5,62	5,66	COPd	
Tj = +12 °C	(low temperature applications warmer climate conditions)	6,07	6,31	5,79	5,85	COPd	
Tj = bivalent temperature	(average climate conditions)	2,86	2,95	2,77	2,72	COPd	
Tj = bivalent temperature	(colder climate conditions)	2,86	2,95	2,77	2,72	COPd	
Tj = bivalent temperature	(warmer climate conditions)	2,86	2,95	2,77	2,72	COPd	
Tj = bivalent temperature	(low temperature applications average climate conditions)	4,26	4,29	3,93	3,97	COPd	
Tj = bivalent temperature	(low temperature applications colder climate conditions)	4,26	4,29	3,93	3,97	COPd	
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	4,26	4,29	3,93	3,97	COPd	
Tj = operation limit temperature	(average climate conditions)	2,86	2,95	2,77	2,72	COPd	
Tj = operation limit temperature	(colder climate conditions)	2,86	2,95	2,77	2,72	COPd	
Tj = operation limit temperature	(warmer climate conditions)	2,86	2,95	2,77	2,72	COPd	
Tj = operation limit temperature	(low temperature applications average climate conditions)	4,26	4,29	3,93	3,97	COPd	
Tj = operation limit temperature	(low temperature applications colder climate conditions)	4,26	4,29	3,93	3,97	COPd	
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	4,26	4,29	3,93	3,97	COPd	
Heating water operating limit temperature		65	65	65	65	WTOL	°C
Power consumption in other mode than active							
Off mode		0,012	0,007	0,009	0,009	POFF	kW
Thermostat off mode		0,012	0,007	0,011	0,011	PTO	kW
Standby mode		0,012	0,007	0,018	0,011	PSB	kW
Crancase heater mode		0,000	0,000	0,000	0,000	PCK	kW
Supplementary heater							
Rated heat output	(average climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(colder climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(warmer climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications average climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications colder climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications warmer climate conditions)	0,0	0,0	0,0	0,0	Psup	kW
Type of energy input		Electrical	Electrical	Electrical	Electrical		
Other items							
Capacity control		Capacity controlled	Capacity controlled	Capacity controlled	Capacity controlled		
Sound power levels indoors		47	50	43	50	LWA	dB
Annual energy consumption	(average climate conditions)	15305	16768	28063	39457	QHE	kWh
Annual energy consumption	(colder climate conditions)	17698	19290	32491	45048	QHE	kWh

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Annual energy consumption	(warmer climate conditions)	9906	10862	17857	23056	QHE	kWh
Annual energy consumption	(low temperature applications average climate conditions)	12358	13917	23714	33804	QHE	kWh
Annual energy consumption	(low temperature applications colder climate conditions)	14325	16014	27759	39378	QHE	kWh
Annual energy consumption	(low temperature applications warmer climate conditions)	7963	8920	15055	21524	QHE	kWh
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(average climate conditions)	8	9	11	17		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(colder climate conditions)	8	9	11	17		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(warmer climate conditions)	8	8	11	17		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications average climate conditions)	6	8	12	16		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications colder climate conditions)	6	8	12	16		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications warmer climate conditions)	6	8	12	16		m3/h
Possibility to run only during off peak hours		Yes	Yes	Yes	Yes		
* 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.						