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 heat pump combination heaters and temperature control packages		086L4198 086L4200	086L3590 086L3600		
Model	Conditions	Inverter M Inverter M 230 Duo Inverter M Duo Inverter M 230	Inverter L Duo Inverter L	Symbol	Unit
Air to water heat pump		NO	NO		
Water-to-water heat pump		YES	YES		
Brine-to water heat pump		YES	YES		
Low Temperature Heat pump		NO	NO		
Equipped with supplementary heater		YES	YES		
Heat pump combination heater		YES	YES		
Built in temperature control class		II	II		
Built in temperature control contribution to energy efficiency		2	2		%
Danfoss Link temperature control class		VI	VI		
Danfoss Link temperature control contribution to energy efficiency		4	4		%
Rated heat output	(average climate conditions)	11	15	Prated	kW
Rated heat output	(colder climate conditions)	11	15	Prated	kW
Rated heat output	(warmer climate conditions)	11	15	Prated	kW
Rated heat output	(low temperature applications average climate conditions)	12	15	Prated	kW
Rated heat output	(low temperature applications colder climate conditions)	12	15	Prated	kW
Rated heat output	(low temperature applications warmer climate conditions)	12	15	Prated	kW
SCOP	(average climate conditions)	4,11	4,12		
SCOP	(colder climate conditions)	4,26	4,25		
SCOP	(warmer climate conditions)	4,09	4,14		
SCOP	(low temperature applications average climate conditions)	5,35	5,19		
SCOP	(low temperature applications colder climate conditions)	5,56	5,42		
SCOP	(low temperature applications warmer climate conditions)	5,36	5,20		
Seasonal space heating Energy efficiency	(average climate conditions)	156	157	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(average climate conditions)	158	159	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(average climate conditions)	160	161	ηs	%
Seasonal space heating Energy efficiency	(colder climate conditions)	162	162	ηs	%

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages		086L4198 086L4200	086L3590 086L3600		
Model	Conditions	Inverter M Inverter M 230 Duo Inverter M Duo Inverter M 230	Inverter L Duo Inverter L	Symbol	Unit
Seasonal space heating Energy efficiency Built in temperature control	(colder climate conditions)	164	164	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(colder climate conditions)	166	166	ηs	%
Seasonal space heating Energy efficiency	(warmer climate conditions)	156	158	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(warmer climate conditions)	158	160	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(warmer climate conditions)	160	162	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications average climate conditions)	206	200	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications average climate conditions)	208	202	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications average climate conditions)	210	204	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications colder climate conditions)	214	209	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications colder climate conditions)	216	211	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications colder climate conditions)	218	213	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications warmer climate conditions)	206	200	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications warmer climate conditions)	208	202	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications warmer climate conditions)	210	204	ηs	%
Energy efficiency class		A++	A++		
Energy efficiency class built in temperature control package		A+++	A+++		
Energy efficiency class Danfoss Link temperature control package		A+++	A+++		
Energy efficiency class	(low temperature applications)	A++	A++		
Energy efficiency class built in temperature control package	(low temperature applications)	A+++	A+++		
Energy efficiency class Danfoss Link temperature control package	(low temperature applications)	A+++	A+++		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj					

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages		086L4198 086L4200	086L3590 086L3600		
Model	Conditions	Inverter M Inverter M 230 Duo Inverter M Duo Inverter M 230	Inverter L Duo Inverter L	Symbol	Unit
Tj = -7 °C	(average climate conditions)	9,9	13,1	Pdh	kW
Tj = -7 °C	(colder climate conditions)	6,8	9,0	Pdh	kW
Tj = -7 °C	(warmer climate conditions)	NA	NA	Pdh	kW
Tj = -7 °C	(low temperature applications average climate conditions)	10,9	13,5	Pdh	kW
Tj = -7 °C	(low temperature applications colder climate conditions)	7,5	9,3	Pdh	kW
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	Pdh	kW
Tj = +2 °C	(average climate conditions)	6,1	8,0	Pdh	kW
Tj = +2 °C	(colder climate conditions)	4,1	5,4	Pdh	kW
Tj = +2 °C	(warmer climate conditions)	11,2	14,8	Pdh	kW
Tj = +2 °C	(low temperature applications average climate conditions)	6,6	8,2	Pdh	kW
Tj = +2 °C	(low temperature applications colder climate conditions)	4,5	5,6	Pdh	kW
Tj = +2 °C	(low temperature applications warmer climate conditions)	12,3	15,3	Pdh	kW
Tj = +7 °C	(average climate conditions)	3,9	5,1	Pdh	kW
Tj = +7 °C	(colder climate conditions)	3,8	5,7	Pdh	kW
Tj = +7 °C	(warmer climate conditions)	7,2	9,5	Pdh	kW
Tj = +7 °C	(low temperature applications average climate conditions)	4,3	5,3	Pdh	kW
Tj = +7 °C	(low temperature applications colder climate conditions)	3,9	5,9	Pdh	kW
Tj = +7 °C	(low temperature applications warmer climate conditions)	8,0	9,8	Pdh	kW
Tj = +12 °C	(average climate conditions)	3,8	5,7	Pdh	kW
Tj = +12 °C	(colder climate conditions)	3,8	5,8	Pdh	kW
Tj = +12 °C	(warmer climate conditions)	3,8	5,7	Pdh	kW
Tj = +12 °C	(low temperature applications average climate conditions)	3,9	5,8	Pdh	kW
Tj = +12 °C	(low temperature applications colder climate conditions)	3,9	5,8	Pdh	kW
Tj = +12 °C	(low temperature applications warmer climate conditions)	3,5	5,9	Pdh	kW
Tj = bivalent temperature	(average climate conditions)	11,2	14,8	Pdh	kW
Tj = bivalent temperature	(colder climate conditions)	11,2	14,8	Pdh	kW
Tj = bivalent temperature	(warmer climate conditions)	11,2	14,8	Pdh	kW

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages		086L4198 086L4200	086L3590 086L3600		
Model	Conditions	Inverter M Inverter M 230 Duo Inverter M Duo Inverter M 230	Inverter L Duo Inverter L	Symbol	Unit
Tj = bivalent temperature	(low temperature applications average climate conditions)	12,3	15,3	Pdh	kW
Tj = bivalent temperature	(low temperature applications colder climate conditions)	12,3	15,3	Pdh	kW
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	12,3	15,3	Pdh	kW
Tj = operation limit temperature	(average climate conditions)	11,2	14,8	Pdh	kW
Tj = operation limit temperature	(colder climate conditions)	11,2	14,8	Pdh	kW
Tj = operation limit temperature	(warmer climate conditions)	11,2	14,8	Pdh	kW
Tj = operation limit temperature	(low temperature applications average climate conditions)	12,3	15,3	Pdh	kW
Tj = operation limit temperature	(low temperature applications colder climate conditions)	12,3	15,3	Pdh	kW
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	12,3	15,3	Pdh	kW
Bivalent temperature	(average climate conditions)	-10	-10	Tbiv	°C
Bivalent temperature	(colder climate conditions)	-22	-22	Tbiv	°C
Bivalent temperature	(warmer climate conditions)	2	2	Tbiv	°C
Bivalent temperature	(low temperature applications average climate conditions)	-10	-10	Tbiv	°C
Bivalent temperature	(low temperature applications colder climate conditions)	-22	-22	Tbiv	°C
Bivalent temperature	(low temperature applications warmer climate conditions)	2	2	Tbiv	°C
Degradation coefficient Tj= +7 °C	(colder climate conditions)	1,0	1,0	Cdh	
Degradation coefficient Tj= +7 °C	(low temperature applications colder climate conditions)	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(average climate conditions)	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(colder climate conditions)	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(warmer climate conditions)	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications average climate conditions)	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications colder climate conditions)	1,0	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications warmer climate conditions)	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)	3,12	3,20	COPd	

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages		086L4198 086L4200	086L3590 086L3600		
Model	Conditions	Inverter M Inverter M 230 Duo Inverter M Duo Inverter M 230	Inverter L Duo Inverter L	Symbol	Unit
Tj = -7 °C	(colder climate conditions)	3,93	3,94	COPd	
Tj = -7 °C	(warmer climate conditions)	NA	NA	COPd	
Tj = -7 °C	(low temperature applications average climate conditions)	4,46	4,37	COPd	
Tj = -7 °C	(low temperature applications colder climate conditions)	5,44	5,28	COPd	
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	NA	COPd	
Tj = +2 °C	(average climate conditions)	4,10	4,12	COPd	
Tj = +2 °C	(colder climate conditions)	4,64	4,63	COPd	
Tj = +2 °C	(warmer climate conditions)	2,90	2,96	COPd	
Tj = +2 °C	(low temperature applications average climate conditions)	5,44	5,30	COPd	
Tj = +2 °C	(low temperature applications colder climate conditions)	5,89	5,83	COPd	
Tj = +2 °C	(low temperature applications warmer climate conditions)	4,20	4,08	COPd	
Tj = +7 °C	(average climate conditions)	4,67	4,81	COPd	
Tj = +7 °C	(colder climate conditions)	4,87	4,92	COPd	
Tj = +7 °C	(warmer climate conditions)	3,71	3,73	COPd	
Tj = +7 °C	(low temperature applications average climate conditions)	5,89	5,83	COPd	
Tj = +7 °C	(low temperature applications colder climate conditions)	5,85	5,74	COPd	
Tj = +7 °C	(low temperature applications warmer climate conditions)	5,13	5,01	COPd	
Tj = +12 °C	(average climate conditions)	4,87	4,88	COPd	
Tj = +12 °C	(colder climate conditions)	5,00	4,90	COPd	
Tj = +12 °C	(warmer climate conditions)	4,75	4,95	COPd	
Tj = +12 °C	(low temperature applications average climate conditions)	5,58	5,44	COPd	
Tj = +12 °C	(low temperature applications colder climate conditions)	5,59	5,36	COPd	
Tj = +12 °C	(low temperature applications warmer climate conditions)	5,90	5,37	COPd	
Tj = bivalent temperature	(average climate conditions)	2,90	2,96	COPd	
Tj = bivalent temperature	(colder climate conditions)	2,90	2,96	COPd	
Tj = bivalent temperature	(warmer climate conditions)	2,90	2,96	COPd	

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages		086L4198 086L4200	086L3590 086L3600		
Model	Conditions	Inverter M Inverter M 230 Duo Inverter M Duo Inverter M 230	Inverter L Duo Inverter L	Symbol	Unit
Tj = bivalent temperature	(low temperature applications average climate conditions)	4,20	4,08	COPd	
Tj = bivalent temperature	(low temperature applications colder climate conditions)	4,20	4,08	COPd	
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	4,20	4,08	COPd	
Tj = operation limit temperature	(average climate conditions)	2,90	2,96	COPd	
Tj = operation limit temperature	(colder climate conditions)	2,90	2,96	COPd	
Tj = operation limit temperature	(warmer climate conditions)	2,90	2,96	COPd	
Tj = operation limit temperature	(low temperature applications average climate conditions)	4,20	4,08	COPd	
Tj = operation limit temperature	(low temperature applications colder climate conditions)	4,20	4,08	COPd	
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	4,20	4,08	COPd	
Heating water operating limit temperature		65	65	WTOL	°C
Power consumption in other mode than active					
Off mode		0,008	0,022	POFF	kW
Thermostat off mode		0,004	0,022	PTO	kW
Standby mode		0,004	0,022	PSB	kW
Crancase heater mode				PCK	kW
Supplementary heater					
Rated heat output	(average climate conditions)	0,0	0,0	Psup	kW
Rated heat output	(colder climate conditions)	0,0	0,0	Psup	kW
Rated heat output	(warmer climate conditions)	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications average climate conditions)	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications colder climate conditions)	0,0	0,0	Psup	kW
Rated heat output	(low temperature applications warmer climate conditions)	0,0	0,0	Psup	kW
Type of energy input		Electrical	Electrical		
Other items					
Capacity control		Capacity controlled	Capacity controlled		
Sound power levels indoors		49	50	LWA	dB
Sound power levels indoors (Duo Version)		50	52	LWA	dB
Annual energy consumption	(average climate conditions)	5781	7329	QHE	kWh
Annual energy consumption	(colder climate conditions)	6633	8512	QHE	kWh
Annual energy consumption	(warmer climate conditions)	3718	4667	QHE	kWh

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages		086L4198 086L4200	086L3590 086L3600		
Model	Conditions	Inverter M Inverter M 230 Duo Inverter M Duo Inverter M 230	Inverter L Duo Inverter L	Symbol	Unit
Annual energy consumption	(low temperature applications average climate conditions)	4737	6081	QHE	kWh
Annual energy consumption	(low temperature applications colder climate conditions)	5493	6953	QHE	kWh
Annual energy consumption	(low temperature applications warmer climate conditions)	3048	3926	QHE	kWh
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(average climate conditions)	2	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(colder climate conditions)	2	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(warmer climate conditions)	2	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications average climate conditions)	3	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications colder climate conditions)	3	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications warmer climate conditions)	3	3		m3/h
Possibility to run only during off peak hours		Yes	Yes		
For heat pump combination heater:					
Declared load profile *		XL	XL		
Daily electricity consumption *		7,398	7,203	Qelec	kWh
Annual electricity consumption		1579	1536	AEC	kWh/annum
Water heater energy efficiency *		104	107	ηwh	%
Energy label water heater		A	A		
*Same figures for Average, Cold and warm climate conditions					