

Technical parameters for heat pump space heaters and heat pump combination heaters and temperature control packages

	Conditions	086L3591 DHP-H Varius Pro +	Symbol	Unit
Model		NO		
Air to water heat pump		YES		
Water-to-water heat pump		YES		
Brine-to water heat pump		NO		
Low Temperature Heat pump		YES		
Equipped with supplementary heater		YES		
Heat pump combination heater		II		
Built in temperature control class		2		%
Built in temperature control contribution to energy efficiency		VI		
Danfoss Link temperature control class		4		%
Danfoss Link temperature control contribution to energy efficiency		15	Prated	kW
Rated heat output	(average climate conditions)	15	Prated	kW
Rated heat output	(colder climate conditions)	15	Prated	kW
Rated heat output	(warmer climate conditions)	15	Prated	kW
Rated heat output	(low temperature applications average climate conditions)	15	Prated	kW
Rated heat output	(low temperature applications colder climate conditions)	15	Prated	kW
Rated heat output	(low temperature applications warmer climate conditions)	15	Prated	kW
SCOP	(average climate conditions)	4,14		
SCOP	(colder climate conditions)	4,25		
SCOP	(warmer climate conditions)	4,12		
SCOP	(low temperature applications average climate conditions)	5,19		
SCOP	(low temperature applications colder climate conditions)	5,42		
SCOP	(low temperature applications warmer climate conditions)	5,20		
Seasonal space heating Energy efficiency	(average climate conditions)	158	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(average climate conditions)	160	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(average climate conditions)	162	ηs	%
Seasonal space heating Energy efficiency	(colder climate conditions)	162	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(colder climate conditions)	164	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(colder climate conditions)	166	ηs	%
Seasonal space heating Energy efficiency	(warmer climate conditions)	157	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(warmer climate conditions)	159	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(warmer climate conditions)	161	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications average climate conditions)	200	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications average climate conditions)	202	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications average climate conditions)	204	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications colder climate conditions)	209	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications colder climate conditions)	211	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications colder climate conditions)	213	ηs	%
Seasonal space heating Energy efficiency	(low temperature applications warmer climate conditions)	200	ηs	%
Seasonal space heating Energy efficiency Built in temperature control	(low temperature applications warmer climate conditions)	202	ηs	%
Seasonal space heating Energy efficiency Danfoss Link temperature control	(low temperature applications warmer climate conditions)	204	ηs	%
Energy efficiency class		A++		
Energy efficiency class built in temperature control package		A+++		
Energy efficiency class Danfoss Link temperature control package		A+++		
Energy efficiency class	(low temperature applications)	A++		
Energy efficiency class built in temperature control package	(low temperature applications)	A+++		
Energy efficiency class Danfoss Link temperature control package	(low temperature applications)	A+++		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C	(average climate conditions)	13,1	Pdh	kW
Tj = -7 °C	(colder climate conditions)	9,0	Pdh	kW
Tj = -7 °C	(warmer climate conditions)	NA	Pdh	kW
Tj = -7 °C	(low temperature applications average climate conditions)	13,5	Pdh	kW
Tj = -7 °C	(low temperature applications colder climate conditions)	9,3	Pdh	kW
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	Pdh	kW
Tj = +2 °C	(average climate conditions)	8,0	Pdh	kW
Tj = +2 °C	(colder climate conditions)	5,4	Pdh	kW
Tj = +2 °C	(warmer climate conditions)	14,8	Pdh	kW
Tj = +2 °C	(low temperature applications average climate conditions)	8,2	Pdh	kW
Tj = +2 °C	(low temperature applications colder climate conditions)	5,6	Pdh	kW

Tj = +2 °C	(low temperature applications warmer climate conditions)	15,3	Pdh	kW
Tj = +7 °C	(average climate conditions)	5,1	Pdh	kW
Tj = +7 °C	(colder climate conditions)	5,7	Pdh	kW
Tj = +7 °C	(warmer climate conditions)	9,5	Pdh	kW
Tj = +7 °C	(low temperature applications average climate conditions)	5,3	Pdh	kW
Tj = +7 °C	(low temperature applications colder climate conditions)	5,9	Pdh	kW
Tj = +7 °C	(low temperature applications warmer climate conditions)	9,8	Pdh	kW
Tj = +12 °C	(average climate conditions)	5,7	Pdh	kW
Tj = +12 °C	(colder climate conditions)	5,8	Pdh	kW
Tj = +12 °C	(warmer climate conditions)	5,7	Pdh	kW
Tj = +12 °C	(low temperature applications average climate conditions)	5,8	Pdh	kW
Tj = +12 °C	(low temperature applications colder climate conditions)	5,8	Pdh	kW
Tj = +12 °C	(low temperature applications warmer climate conditions)	5,9	Pdh	kW
Tj = bivalent temperature	(average climate conditions)	14,8	Pdh	kW
Tj = bivalent temperature	(colder climate conditions)	14,8	Pdh	kW
Tj = bivalent temperature	(warmer climate conditions)	14,8	Pdh	kW
Tj = bivalent temperature	(low temperature applications average climate conditions)	15,3	Pdh	kW
Tj = bivalent temperature	(low temperature applications colder climate conditions)	15,3	Pdh	kW
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	15,3	Pdh	kW
Tj = operation limit temperature	(average climate conditions)	14,8	Pdh	kW
Tj = operation limit temperature	(colder climate conditions)	14,8	Pdh	kW
Tj = operation limit temperature	(warmer climate conditions)	14,8	Pdh	kW
Tj = operation limit temperature	(low temperature applications average climate conditions)	15,3	Pdh	kW
Tj = operation limit temperature	(low temperature applications colder climate conditions)	15,3	Pdh	kW
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	15,3	Pdh	kW
Bivalent temperature	(average climate conditions)	-10	Tbiv	°C
Bivalent temperature	(colder climate conditions)	-22	Tbiv	°C
Bivalent temperature	(warmer climate conditions)	2	Tbiv	°C
Bivalent temperature	(low temperature applications average climate conditions)	-10	Tbiv	°C
Bivalent temperature	(low temperature applications colder climate conditions)	-22	Tbiv	°C
Bivalent temperature	(low temperature applications warmer climate conditions)	2	Tbiv	°C
Degradation coefficient Tj= +7 °C	(colder climate conditions)	1,0	Cdh	
Degradation coefficient Tj= +7 °C	(low temperature applications colder climate conditions)	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(average climate conditions)	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(colder climate conditions)	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(warmer climate conditions)	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications average climate conditions)	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications colder climate conditions)	1,0	Cdh	
Degradation coefficient Tj= +12 °C	(low temperature applications warmer climate conditions)	1,0	Cdh	
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj	(low temperature applications warmer climate conditions)	1,0	Cdh	
Tj = -7 °C	(average climate conditions)	3,20	COPd	
Tj = -7 °C	(colder climate conditions)	3,94	COPd	
Tj = -7 °C	(warmer climate conditions)	NA	COPd	
Tj = -7 °C	(low temperature applications average climate conditions)	4,37	COPd	
Tj = -7 °C	(low temperature applications colder climate conditions)	5,28	COPd	
Tj = -7 °C	(low temperature applications warmer climate conditions)	NA	COPd	
Tj = +2 °C	(average climate conditions)	4,12	COPd	
Tj = +2 °C	(colder climate conditions)	4,63	COPd	
Tj = +2 °C	(warmer climate conditions)	2,96	COPd	
Tj = +2 °C	(low temperature applications average climate conditions)	5,30	COPd	
Tj = +2 °C	(low temperature applications colder climate conditions)	5,83	COPd	
Tj = +2 °C	(low temperature applications warmer climate conditions)	4,08	COPd	
Tj = +7 °C	(average climate conditions)	4,81	COPd	
Tj = +7 °C	(colder climate conditions)	4,92	COPd	
Tj = +7 °C	(warmer climate conditions)	3,73	COPd	

Tj = +7 °C	(low temperature applications average climate conditions)	5,83 COPd		
Tj = +7 °C	(low temperature applications colder climate conditions)	5,74	COPd	
Tj = +7 °C	(low temperature applications warmer climate conditions)	5,01	COPd	
Tj = +12 °C	(average climate conditions)	4,88	COPd	
Tj = +12 °C	(colder climate conditions)	4,90	COPd	
Tj = +12 °C	(warmer climate conditions)	4,95	COPd	
Tj = +12 °C	(low temperature applications average climate conditions)	5,44	COPd	
Tj = +12 °C	(low temperature applications colder climate conditions)	5,36	COPd	
Tj = +12 °C	(low temperature applications warmer climate conditions)	5,37	COPd	
Tj = bivalent temperature	(average climate conditions)	2,96	COPd	
Tj = bivalent temperature	(colder climate conditions)	2,96	COPd	
Tj = bivalent temperature	(warmer climate conditions)	2,96	COPd	
Tj = bivalent temperature	(low temperature applications average climate conditions)	4,08	COPd	
Tj = bivalent temperature	(low temperature applications colder climate conditions)	4,08	COPd	
Tj = bivalent temperature	(low temperature applications warmer climate conditions)	4,08	COPd	
Tj = operation limit temperature	(average climate conditions)	2,96	COPd	
Tj = operation limit temperature	(colder climate conditions)	2,96	COPd	
Tj = operation limit temperature	(warmer climate conditions)	2,96	COPd	
Tj = operation limit temperature	(low temperature applications average climate conditions)	4,08	COPd	
Tj = operation limit temperature	(low temperature applications colder climate conditions)	4,08	COPd	
Tj = operation limit temperature	(low temperature applications warmer climate conditions)	4,08	COPd	
Heating water operating limit temperature	(low temperature applications warmer climate conditions)	4,08	COPd	°C
Power consumption in other mode than active		65	WTOL	
Off mode		0,022	POFF	kW
Thermostat off mode		0,022	PTO	kW
Standby mode		0,022	PSB	kW
Crancase heater mode			PCK	kW
Supplementary heater				
Rated heat output	(average climate conditions)		Psup	kW
Rated heat output	(colder climate conditions)		Psup	kW
Rated heat output	(warmer climate conditions)		Psup	kW
Rated heat output	(low temperature applications average climate conditions)		Psup	kW
Rated heat output	(low temperature applications colder climate conditions)		Psup	kW
Rated heat output	(low temperature applications warmer climate conditions)		Psup	kW
Type of energy input			Electrical	
Other items			Capacity controlled	
Capacity control				
Sound power levels indoors				
Sound power levels indoors (Duo Version)				
Annual energy consumption	(average climate conditions)	7329	LWA	dB
Annual energy consumption	(colder climate conditions)	8512	LWA	dB
Annual energy consumption	(warmer climate conditions)	4667	QHE	kWh
Annual energy consumption	(colder climate conditions)		QHE	kWh
Annual energy consumption	(warmer climate conditions)		QHE	kWh
Annual energy consumption	(low temperature applications average climate conditions)	6081	QHE	kWh
Annual energy consumption	(low temperature applications colder climate conditions)	6953	QHE	kWh
Annual energy consumption	(low temperature applications warmer climate conditions)	3926	QHE	kWh
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(average climate conditions)	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(colder climate conditions)	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(warmer climate conditions)	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications average climate conditions)	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications colder climate conditions)	3		m3/h
For brine to water heat pumps: Rated brine flow rate, outdoor heat exchanger	(low temperature applications warmer climate conditions)	3		m3/h
Possibility to run only during off peak hours	(low temperature applications warmer climate conditions)	3		m3/h
For heat pump combination heater:		Yes		
Declared load profile *		XL		
Daily electricity consumption *		7,203	Qelec	kWh
Annual electricity consumption		1536	AEC	kWh/annum
Water heater energy efficiency *		107	ηwh	%
Energy label water heater		A		