GE09

Heating pump system for space heating

Model	GE09
Air-to-water heat pump	No
Water-to-water heat pump	No
Brine-to-water heat pump	Yes
Low-temperature heat pump	Yes
Equipped with a supplementary heater	Yes
Heat pump combination heater	No
Temperature control:	
Model	CTS602
Class	2
Contribution to seasonal space heating energy efficiency	2%

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NILAN GE09 — 35 °C — A+++

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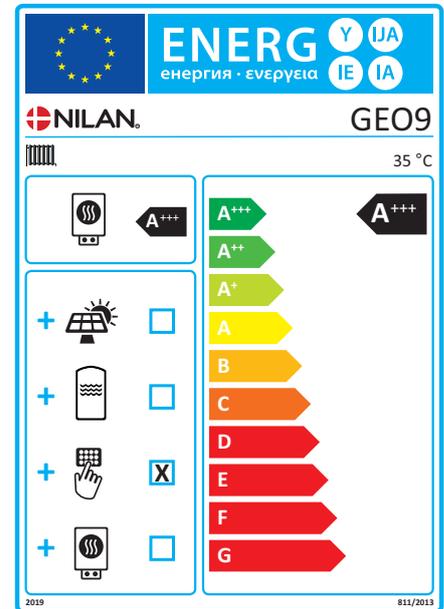
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heat output	P_{rated}	9,05	kW		Seasonal space heating energy efficiency	η_s	232	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature of T_j					Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\,°C$	Pdh	8,01	kW		$T_j = -7\,°C$	COPd	4,42	
$T_j = +2\,°C$	Pdh	4,87	kW		$T_j = +2\,°C$	COPd	5,33	
$T_j = +7\,°C$	Pdh	3,13	kW		$T_j = +7\,°C$	COPd	5,96	
$T_j = +12\,°C$	Pdh	1,39	kW		$T_j = +12\,°C$	COPd	5,96	
T_j = bivalent temperature	Pdh	9,05	kW		T_j = bivalent temperature	COPd	4,16	
T_j = operation limit temperature	Pdh		kW		T_j = operation limit temperature	COPd		
For air-water-heating pumps Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	COPd		
Bivalent temperature	T_{biv}	-10	°C		For air-to-water heat pumps: Operation limit temperature	TOL		°C
Cycling interval capacity for heating	Pcych		kW		Cycling interval efficiency	COPcyc		
Degradation co-efficient	Cdh	0,94-0,99			Heating water operating limit temperature	WTOL		°C
Power consumption in modes other than active mode					Supplementary heater			
Off mode	P_{OFF}	0,010	kW		Rated heat output	Psup		kW
Thermostat off-mode	P_{TO}	0,015	kW					
Standby mode	P_{SB}	0,010	kW		Type of energy input	Electrical		
Crankcase heater mode	P_{CK}	0,010	kW					
Other items								
Capacity control:	Variable compressor Variable indoor temperature adjustment				For air-to-water heat pumps: Rated air flow rate, outdoors			m³/h
	Fixed indoor water flow Fixed outdoor water flow				For water-/brine-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		1,53	m³/h
Sound power level, indoors	L_{WA}		dB					
Emissions of nitrogen oxides	Q_{HE}		kWh					