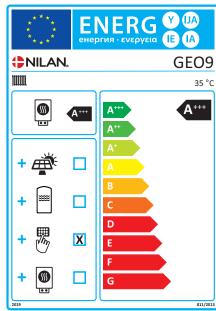
GEO 9

Heating pump system for space heating

Model	GEO 9
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%



%

°C

°C

kW

m³/h

m³/h

contribution to seasonal space heating energy enficiency				□ /O 2019				
Item	Symbol	Value	Unit	Item	Symbol	Value		
item	Syllion	value	Offic	item	Syllioui	value		
Rated heat output	Prated	9,05	kW	Seasonal space heating energy efficiency	Ŋs	232		
Declared capacity for heating for part load a and outdoor temperature of $\mathbf{T}_{\mathbf{j}}$	t indoor temp	erature 20°C		Declared coefficient of performance or patindoor temperature 20 °C and outdoo	orimary energy r r temperature T	atio for part lo	oad	
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			
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			
Power consumption in modes other th	an active m	ode		Supplementary heater				
Off mode	P _{OFF}	0,010	kW	Rated heat output	Psup			
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					
Otheritems								
Capacity control:	Variable compressor Variable indoor temperature adjustment			For air-to-water heat pumps: Rated air flow rate, outdoors			n	
	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	٢	
Sound power level, indoors	L _{wa}		dB					
Emissions of nitrogen oxides	Q _{HF}		kWh					

