

GE03

Item

Heating pump system for space heating

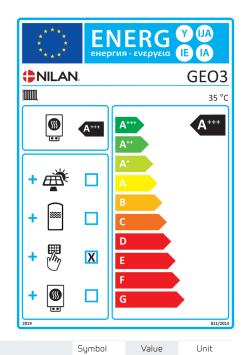
Model	GE03
Air-to-water heat pump	No
Water-to-water heat pump	No
Brine-to-water heat pump	Yes
Low-temperature heat pump	Yes
Equipped with a supplementary heater	Yes
Heat pump combination heater	No
Temperature control:	
Model	CTS602
Class	5
Contribution to seasonal space heating energy efficiency	2%

Symbol

Value

Unit

Item



Rated heat output	Prated	3,44	kW		
Declared capacity for heating for part load at and outdoor temperature of $\boldsymbol{T}_{\boldsymbol{j}}$	t indoor tempe	erature 20 °C			
T _j = -7 °C	Pdh	3,04	kW		
T _j = +2 ℃	Pdh	1,88	kW		
T _j = +7 ℃	Pdh	1,26	kW		
T _j = +12 °C	Pdh	1,02	kW		
T _j = bivalent temperature	Pdh	3,03	kW		
T _j = operation limit temperature	Pdh	0	kW		
For air-water-heating pumps Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		
Bivalent temperature	$T_{_{biv}}$	-7	°C		
Cycling interval capacity for heating	Pcych		kW		
Degradation co-efficient	Cdh	0,97			
Power consumption in modes other than active mode					
Off mode	P _{OFF}	0,003	kW		
Thermostat off-mode	P _{TO}	0,010	kW		
Standby mode	$P_{\rm SB}$	0,010	kW		
Crankcase heater mode	P _{CK}	0,000	kW		
Other items					
Capacity control:	Variable compressor Variable indoor temperature adjustment				
	Fixed indoor water flow Fixed outdoor water flow				
Sound power level, indoors	L _{WA}	47	dB		
Emissions of nitrogen oxides	Q_{HE}	931	kWh		

Seasonal space heating energy efficiency	Ŋ _s	208	%	
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 $^\circ\mathrm{C}$ and outdoor temperature T_j				
T _j = -7 °C	COPd	4,66		
T _j = +2 °C	COPd	5,29		
T _j = +7 °C	COPd	5,63		
T _j = +12 °C	COPd	5,82		
T _j = bivalent temperature	COPd	4,61		
T _j = operation limit temperature	COPd	0		
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	COPd			
For air-to-water heat pumps: Operation limit temperature	TOL		°C	
Cycling interval efficiency	COPcyc			
Heating water operating limit temperature	WTOL	52	°C	
Supplementary heater				
Rated heat output	Psup	2	kW	
Type of energy input	Electrical			
For air-to-water heat pumps: Rated air flow rate, outdoors			m³/h	
For water-/brine-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		0,518	m³/h	