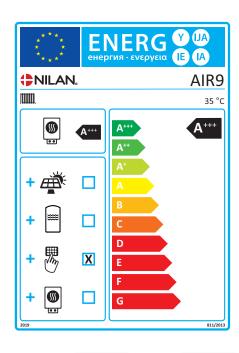


AIR9

Heat pump for space heating

Model	AIR9
Air-to-water heat pump	Yes
Water-to-water heat pump	No
Brine-to-water heat pump	No
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%



Item	Symbol	Value	Unit	
ite	39111001	70.00	0	
Rated heat output	Prated	5,21	kW	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature of T _i				
T _j = -7 °C	Pdh	4,79	kW	
T _j = +2 °C	Pdh	2,88	kW	
T _j = +7 °C	Pdh	1,90	kW	
T _j = +12 °C	Pdh	2,12	kW	
T_j = bivalent temperature	Pdh	5,21	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}	-10	°C	
Cycling interval capacity for heating	Pcych		kW	
Degradation co-efficient	Cdh	0,94-0,99		
Power consumption in modes other than active mode				
Off mode	Poff	0,01	kW	
Thermostat off-mode	P _{TO}	0,005	kW	
Standby mode	P_{SB}	0,01	kW	
Crankcase heater mode	$P_{c\kappa}$	0	kW	
Otheritems				
Capacity control:	Variable compressor Variable indoor water flow			
	Variable indoor temperature adjustment			
Sound power level, outdoors	L _{WA}	46	dB	
Annual energy consumption	Q _{HE}	1464	kWh	

Item	Symbol	Value	Unit	
Seasonal space heating energy efficiency	Ŋs	206	%	
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _i				
T _j = -7 °C	COPd	3,20		
T _j = +2 °C	COPd	4,95		
T _j = +7 °C	COPd	6,53		
T _j = +12 °C	COPd	9,69		
T _j = bivalent temperature	COPd	2,83		
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	-22	°C	
Cycling interval efficiency	СОРсус			
Heating water operating limit temperature	WTOL	45	°C	
Supplementary heater				
Rated heat output	Psup	6	kW	
Type of energy input	Electrical			
For air-to-water heat pumps: Rated air flow rate, outdoors		3000	m³/h	
For water-/ brine-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			m³/h	