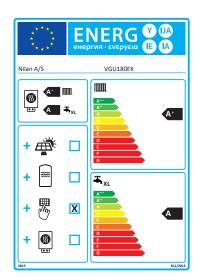


VGU180EK

Heat pump combination for space heating and domestic hot water production - average climate

Model	VGU180EK
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	Yes
Temperature control:	
Model	CTS602
Class	2
Contribution to seasonal space heating energy efficiency	2%



Item	Symbol	Value	Unit
Rated heat output (*)	Prated	2.5	kW
*Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature of T			

T _j = -7 °C	Pdh	2.078	kW
T _j = +2 °C	Pdh	2.094	kW
T _j = +7 °C	Pdh	2.109	kW
T _j = +12 °C	Pdh	2.151	kW
T _j = bivalent temperature	Pdh	2.074	kW
T _j = operation limit temperature	Pdh	2.119	kW
Operation limit temperature Tj = -15 °C (if TOL < -20 °C)	Pdh		kW
Bivalent temperature	$T_{\rm biv}$	-6	°C
Cycling interval capacity for heating	Pcych		kW
Degradation co-efficient	Cdh	0.9	

Power consumption in modes other than active mode				
Off mode	P _{OFF}	0.0084	kW	
Thermostat off-mode	P _{TO}	0.0253	kW	
Standby mode	P _{SB}	0.0084	kW	
Crankcase heater mode	P _{CK}	0	kW	
Otheritems				
Capacity control:	Variable compressor Variable indoor temperature adjustment			
	Permanent indoor water flow Permanent outdoor water flow			
Sound power level, indoor	L _{WA}	58.2	dB	
Annual energy consumption	Q_{HE}	1732	kWh	

	XL	
Q _{elec}	7.212	kWh
AEC	1557	kWh
		Q _{elec} 7.212

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	Ŋ _s	105	%

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_{\rm i}$

	' j		
T _j = -7 °C	COPd	3.59	
T _j = +2 °C	COPd	3.77	
T _j = +7 °C	COPd	3.97	
T _j = +12 °C	COPd	4.13	
T _j = bivalent temperature	COPd	3.64	
T _j = operation limit temperature	COPd	3.70	
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 capacity for heating	COPcyc		
Heating water operating limit temperature	WTOL		°C
Supplementary heater			
Rated heat output	Psup	9	kW
Type of energy input	Elektrisk		
For air-to-water heat pumps: Rated air flow rate, outdoors		360	m³/h
For water-/ brine-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			m³/h
Energy efficiency for water heating	0 _{wh}	108	%
Daily fuel consumption	Q _{fuel}		kWh