

# Technical documentation

Model		NSKW06					
Type of heat pump	<input type="checkbox"/> Air-water <input type="checkbox"/> Exhaust-water <input checked="" type="checkbox"/> Brine-water <input type="checkbox"/> Water-water						
Low-temperature heat pump Yes No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Integrated immersion heater for additional heat	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Heat pump combination heater Yes No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Climate	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Cold <input type="checkbox"/> Warm						
Temperature application	Average (55°C) <input type="checkbox"/> Low (35°C)						
Applied standards	EN-14825						
<b>Rated heat output</b>	Prated	5.27	kW	<b>Seasonal space heating energy efficiency</b>	$n_c$	119	%
<i>Declared capacity for space heating at part load and at outdoor temperature <math>T_j</math></i>				<i>Declared coefficient of performance for space heating at part load and at outdoor temperature <math>T_j</math></i>			
$T_j = -7\text{ °C}$	Pdh	5.34	kW	$T_j = -7\text{ °C}$	COPd	2.66	
$T_j = +2\text{ °C}$	Pdh	5.55	kW	$T_j = +2\text{ °C}$	COPd	3.16	
$T_j = +7\text{ °C}$	Pdh	5.68	kW	$T_j = +7\text{ °C}$	COPd	3.54	
$T_j = +12\text{ °C}$	Pdh	5.81	kW	$T_j = +12\text{ °C}$	COPd	4.01	
$T_j = \text{biv}$	Pdh	5.27	kW	$T_j = \text{biv}$	COPd	2.50	
$T_j = \text{TOL}$	Pdh	5.27	kW	$T_j = \text{TOL}$	COPd	2.50	
$T_j = -15\text{ °C}$ (if TOL < -20 °C)	Pdh	-	kW	$T_j = -15\text{ °C}$ (if TOL < -20 °C)	COPd	-	
Bivalent temperature	$T_{\text{biv}}$	-10	°C	Min. outdoor air temperature	TOL	-10	°C
Cycling interval capacity	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation coefficient	Cdh	1.00	-	Max supply temperature	WTOL	55.0	°C
<b>Power consumption in modes other than active mode Additional heat</b>				<b>Additional heat</b>			
Off mode	$P_{\text{OFF}}$	0.010	kW	Rated heat output	$P_{\text{sup}}$	-	kW
Thermostat-off mode	$P_{\text{TO}}$	0.005	kW				
Standby mode	$P_{\text{SB}}$	0.002	kW	Type of energy input	-		
Crankcase heater mode	$P_{\text{CK}}$	-	kW				
<b>Other items</b>							
Capacity control	Fixed			Rated airflow (air-water)		-	m <sup>3</sup> /h
Sound power level, indoors/outdoors	$L_{\text{WA}}$	57/0	dB	Nominal heating medium flow		1.26	m <sup>3</sup> /h
Annual energy consumption	$Q_{\text{HE}}$	3432	kWh	Brine flow brine-water or water-water heat pumps		1.62	m <sup>3</sup> /h
<b>For heat pump combination heater:</b>							
<b>Declared load profile</b>	<b>XL</b>			<b>Water heating energy efficiency</b>	$\eta_{\text{wh}}$	0.967	%
Daily electricity consumption	$Q_{\text{elec}}$	9.62	kWh	Daily fuel consumption	$Q_{\text{fuel}}$		kWh
Annual electricity consumption	AEC	2112	kWh	Annual fuel consumption	AFC		GJ