



Technical documentation

Model		NSKW17							
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Climate		<input checked="" type="checkbox"/> Average <input type="checkbox"/> Cold <input type="checkbox"/> Warm							
Temperature application		<input checked="" type="checkbox"/> Average (55°C) <input type="checkbox"/> Low (35°C)							
Applied standards		EN-14825; EN-16147							
Rated heat output		Prated	16.52	kW	Seasonal space heating energy efficiency		N _s	126	%
Declared capacity for space heating at part load and at outdoor temperature T _j				Declared coefficient of performance for space heating at part load and at outdoor temperature T _j					
T _j = -7 °C	P _{dh}	16.06	kW	T _j = -7 °C	COP _d	2.82			
T _j = +2 °C	P _{dh}	16.52	kW	T _j = +2 °C	COP _d	3.30			
T _j = +7 °C	P _{dh}	16.80	kW	T _j = +7 °C	COP _d	3.66			
T _j = +12 °C	P _{dh}	17.08	kW	T _j = +12 °C	COP _d	4.09			
T _j = biv	P _{dh}	15.93	kW	T _j = biv	COP _d	2.70			
T _j = TOL	P _{dh}	15.93	kW	T _j = TOL	COP _d	2.70			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-			
Bivalent temperature				T _{biv}	-10	°C	Min. outdoor air temperature		
Cycling interval capacity				P _{cyh}	-	kW	Cycling interval efficiency		
Degradation coefficient				C _{dh}	1.00	-	Max supply temperature		
							TOL	-10	°C
							COP _{cyh}	-	-
							WTOL	55.0	°C
Power consumption in modes other than active mode Additional heat				Additional heat					
Off mode	P _{OFF}	0.010	kW	Rated heat output		P _{sup}	-	kW	
Thermostat-off mode	P _{TO}	0.005	kW						
Standby mode	P _{SB}	0.007	kW	Type of energy input		-			
Crankcase heater mode	P _{CK}	-	kW						
Other items									
Capacity control	Fixed			Rated airflow (air-water)			-	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	63/0	dB	Nominal heating medium flow			3.24	m ³ /h	
Annual energy consumption	Q _{HE}	9656	kWh	Brine flow brine-water or water-water heat pumps			4.32	m ³ /h	
For heat pump combination heater:									
Declared load profile		XL		Water heating energy efficiency		η _{wh}	92.4	%	
Daily electricity consumption	Q _{elec}	12.12	kWh	Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption	AEC	2613	kWh	Annual fuel consumption		AFC		GJ	
Reference Temperature	θ _{WH}	51.7	°C	Standard heat loss of tank			1.98	kWh/Day	
				Tank volume			384	L/tank	
Approved by:									
Contact details		@ WaterFurnace International - 9000 Conservation Way, Fort Wayne, IN 46809							
The data provided is in accordance with the EU Directive No 811/2013, 812/2013, 813/2013 and 814/2013									
You can find information and precautions related to installation and maintenance in the Installation manuals									
You can find relevant information for disposal of unit at end of life in the instruction manual									