Technical documentation

Model		NSKW12					
Type of heat pump		☐ Air-water ☐ Exhaust-water ☑ Brine-water ☐ Water-water					
Low-temperature heat pump		☐ Yes ☑ No					
Integrated immersion heater for additional heat		☐ Yes ☑ No					
Heat pump combination heater		☐ Yes ☑ No					
Climate		☑ Average ☐ Cold ☐ Warm					
Temperature application		☐ Average (55°C) ☑ Low (35°C)					
Applied standards		EN-14825; EN-16147					
Rated heat output	Prated	11.78	kW	**Seasonal space heating energy efficiency**	N_s	187	%
Declared capacity for space heating at part load and at outdoor temperature Tj				*Declared coefficient of performance for space heating at part load and at outdoor temperature Tj*			
Tj = -7 °C	Pdh	11.73	kW	Tj = -7 °C	COPd	4.55	
Tj = +2 °C	Pdh	11.80	kW	Tj = +2 °C	COPd	4.85	
Tj = +7 °C	Pdh	11.86	kW	Tj = +7 °C	COPd	5.15	
Tj = +12 °C	Pdh	11.91	kW	Tj = +12 °C	COPd	5.48	
Tj = biv	Pdh	11.60	kW	Tj = biv	COPd	4.20	
Tj = TOL	Pdh	11.60	kW	Tj = TOL	COPd	4.20	
Tj = -15 °C (if TOL < -20 °C)	Pdh	-	kW	Tj = -15 °C (if TOL < -20 °C)	COPd	-	
Bivalent temperature	T_{biv}	-10	°C	Min. outdoor air temperature	TOL	-10	°C
Cycling interval capacity	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation coefficient	Cdh	1.00	-	Max supply temperature	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	Psup	-	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}	61/0	dB	Nominal heating medium flow		2.70	m^3/h
Annual energy consumption	Q_{HE}	4920	kWh	Brine flow brine-water or water-water heat pumps		3.60	m^3/h
For heat pump combination heater:							
Declared load profile		**XL**		**Water heating energy efficiency**	η_{wh}	95.2	%
Daily electricity consumption	Q_{elec}	8.64	kWh	Daily fuel consumption	Q_{fuel}		kWh
Annual electricity consumption	AEC	1848.86	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							