



Technical Data Sheet WSLHP7 & WSLHP12

This Technical Data Sheet is made in accordance with Ecodesign Requirements outlined in Regulation (EU) No 811/2013 and Regulation (EU) No 813/2013.

Model(s):				WSLHP7			
Air-to-water heat pump				yes			
Water-to-water heat pump				no			
Brine-to-water heat pump				no			
Low-temperature heat pump				no			
Equipped with a supplementary heater				yes			
Heat pump combination heater				no (yes(**))			
Parameters are declared for low temperature application				yes			
Parameters are declared for average climate condition				yes			
Parameters are declared at variable outlet water temperature				yes			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_s	163	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	5.4	kW	Tj = -7°C	COPd	3.06	-
Tj = +2°C	Pdh	5.7	kW	Tj = +2°C	COPd	4.28	-
Tj = +7°C	Pdh	4.1	kW	Tj = +7°C	COPd	5.27	-
Tj = +12°C	Pdh	4.0	kW	Tj = +12°C	COPd	7.54	-
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.79	-
Tj = operation limit temperature	Pdh	6.7	kW	Tj = operation limit temperature	COPd	2.79	-
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	/	kW	For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	0	kW	Cycling interval efficiency	COPcyc	0	-
Degradation co-efficient (**)	Cdh	1.00	-	Heating water operating limit temperature	WTOL	63	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0.005	kW	Rated heat output (**)	Psup	3 x 2	kW
Thermostat-off mode	PTO	0.011	kW	Type of energy input	electrical heater		
Standby mode	PSB	0.010	kW				
Crankcase heater mode	PCK	0.031	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	1900	m³/h
Sound power level, indoors/ outdoors	LWA	63 / 35	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	3346	kWh				

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) In combination with indoor unit WSL142

Model(s):				WSLHP7											
Air-to-water heat pump				yes											
Water-to-water heat pump				no											
Brine-to-water heat pump				no											
Low-temperature heat pump				no											
Equipped with a supplementary heater				yes											
Heat pump combination heater				no (yes(**))											
Parameters are declared for middle temperature application				yes											
Parameters are declared for average climate condition				yes											
Parameters are declared at variable outlet water temperature				yes											
Item				Symbol				Value				Unit			
Rated heat output (*)				Prated				6				kW			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperatur Tj															
Tj = -7°C				Pdh				4.6				kW			
Tj = +2°C				Pdh				3.3				kW			
Tj = +7°C				Pdh				3.5				kW			
Tj = +12°C				Pdh				4.4				kW			
Tj = bivalent temperature				Pdh				5.4				kW			
Tj = operation limit temperature				Pdh				5.4				kW			
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)				Pdh				/				kW			
Bivalent temperature				Tbiv				-10				°C			
Cycling interval capacity for heating				Ppsych				0				kW			
Degradation co-efficient (**)				Cdh				1.00				-			
Power consumption in modes other than active mode								Supplementary heater							
Off mode				POff				0.005				kW			
Thermostat-off mode				PTO				0.011				kW			
Standby mode				PSB				0.010				kW			
Crankcase heater mode				PCK				0.031				kW			
Other items								Supplementary heater							
Capacity control				variable											
Sound power level, indoors/ outdoors				LWA				64 / 35				dB			
Annual energy consumption				QHE				3897				kWh			
For heat pump combination heater(***)															
Declared load profile				XL				Water heating energy efficiency				ηwh			
Daily electricity consumption				Qelec				7.92				kWh			
Annual electricity consumption				AEC				1742				kWh			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).															
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.															
(***) In combination with indoor unit WSL142															

Model(s):				WSLHP12				
Air-to-water heat pump				yes				
Water-to-water heat pump				no				
Brine-to-water heat pump				no				
Low-temperature heat pump				no				
Equipped with a supplementary heater				yes				
Heat pump combination heater				no (yes(**))				
Parameters are declared for low temperature application				yes				
Parameters are declared for average climate condition				yes				
Parameters are declared at variable outlet water temperature				yes				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW		Seasonal space heating energy efficiency	η_s	182	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperatur Tj					Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperatur Tj			
Tj = -7°C	Pdh	10.5	kW		Tj = -7°C	COPd	3.24	-
Tj = +2°C	Pdh	6.7	kW		Tj = +2°C	COPd	4.73	-
Tj = +7°C	Pdh	7.9	kW		Tj = +7°C	COPd	5.79	-
Tj = +12°C	Pdh	9.3	kW		Tj = +12°C	COPd	8.42	-
Tj = bivalent temperature	Pdh	11.8	kW		Tj = bivalent temperature	COPd	2.71	-
Tj = operation limit temperature	Pdh	11.8	kW		Tj = operation limit temperature	COPd	2.71	-
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	/	kW		For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Ppsych	0	kW	Cycling interval efficiency	COPcyc	0	-	
Degradation co-efficient (**)	Cdh	1.00	-	Heating water operating limit temperature	WTOL	63	°C	
Power consumption in modes other than active mode					Supplementary heater			
Off mode	POFF	0.010	kW		Rated heat output (**)	Psup	3 x 2	kW
Thermostat-off mode	PTO	0.019	kW		Type of energy input	electrical heater		
Standby mode	PSB	0.019	kW					
Crankcase heater mode	PCK	0.041	kW					
Other items								
Capacity control	variable				For air-to-water heat pumps: Rated air flow rate, outdoors	-	3800	m³/h
Sound power level, indoors/ outdoors	LWA	67 / 35	dB		For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	5154	kWh					
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).								
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.								
(***) In combination with indoor unit WSL142								

4 Medium temperature Heating WSLHP12

Model(s):				WSLHP12				
Air-to-water heat pump				yes				
Water-to-water heat pump				no				
Brine-to-water heat pump				no				
Low-temperature heat pump				no				
Equipped with a supplementary heater				yes				
Heat pump combination heater				no (yes(**))				
Parameters are declared for middle temperature application				yes				
Parameters are declared for average climate condition				yes				
Parameters are declared at variable outlet water temperature				yes				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11	kW		Seasonal space heating energy efficiency	η_s	125	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperatur Tj					Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperatur Tj			
Tj = -7°C	Pdh	9.7	kW		Tj = -7°C	COPd	2.07	-
Tj = +2°C	Pdh	6.2	kW		Tj = +2°C	COPd	3.41	-
Tj = +7°C	Pdh	7	kW		Tj = +7°C	COPd	3.94	-
Tj = +12°C	Pdh	8.5	kW		Tj = +12°C	COPd	5.70	-
Tj = bivalent temperature	Pdh	11.3	kW		Tj = bivalent temperature	COPd	1.14	-
Tj = operation limit temperature	Pdh	11.3	kW		Tj = operation limit temperature	COPd	1.14	-
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	/	kW		For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
Bivalent temperature	Tbiv	-10	°C		For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	0	kW		Cycling interval efficiency	COPcyc	0	-
Degradation co-efficient (**)	Cdh	1.00	-		Heating water operating limit temperature	WTOL	63	°C
Power consumption in modes other than active mode				Supplementary heater				
Off mode	POFF	0.010	kW	Rated heat output (**)	Psup	3 x 2	kW	
Thermostat-off mode	PTO	0.019	kW					
Standby mode	PSB	0.019	kW	Type of energy input	electrical heater			
Crankcase heater mode	PCK	0.041	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3800	m³/h	
Sound power level, indoors/ outdoors	LWA	67 / 35	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h	
Annual energy consumption	QHE	7074	kWh					
For heat pump combination heater(***)								
Declared load profile	XL				Water heating energy efficiency	η_{wh}	93	%
Daily electricity consumption	Qelec	9.22	kWh		Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	1875	kWh		Annual fuel consumption	AFC	-	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).								
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.								
(***) In combination with indoor unit WSL142								