

Technical Data Sheet WSLHP7 & WSLHP12

1 Low temperature Heating WSLHP7

Model(s):						WS	LHP7
Air-to-water heat pump							es
Water-to-water heat pump	no						
Brine-to-water heat pump						r	10
Low-temperature heat pump						r	10
Equipped with a supplementa	rv heater						es
Heat pump combination heat							es(***))
Parameters are declared for I		rature ani	olication				es
Parameters are declared for a							es
Parameters are declared at v				ire			es
. arametere are acciared at t	411411111111111111111111111111111111111	ot water	tomporute			y	00
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	value	Unit	Seasonal space heating energy	s	value	OIIIL
raica near output ()	Tatou	7	kW	efficiency		163	%
Declared capacity for heating	for part lo	ad at inde	oor	Declared coefficient of perfor	mance or	primary er	ergy ratio
temperature 20 °C and outdoo	-			for part load at indoor temper temperatur 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 that	n active m	ode	Supplementary heater			
Off mode	Poff	0,005	kW	Rated heat output (**)	Psup		
Thermostat-off mode	Рто	0,011	kW	1 	Ι΄.	3 x 2	kW
Standby mode	PSB	0,010	kW	Type of energy input			
Crankcase heater mode	PCK	0,031	kW	1 1	e	ectical hea	ter
	I.						
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			, <u>2</u> /1
Annual energy consumption	QHE	3346	kWh	flow rate, outdoor heat exchanger	-	-	m³/h
Pdesignh, and the rated heat ou	tput of a su	pplementa	ry heater Pa	ters, the rated heat output Prated is easup is equal to the supplementary caparadation coefficient is Cdh = 0,9.	•	•	~
(***) In combination with indoor u				,			
, in combination with indoor t	1 1171-142	J I					

2 High temperature Heating WSLHP7

Model(s):							WSI	HP7
Air-to-water heat pump								es
Water-to-water heat pump								10
								10
Brine-to-water heat pump								
Low-temperature heat pump Equipped with a supplementa	no yes							
Heat pump combination heat								
		no roturo	annliaatia					es(***))
Parameters are declared for a		•	• •	n				es
Parameters are declared for a								es
Parameters are declared at v	ariable ou	liet water	temperatu	re			ye	es
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	1	Seasonal space heating energy efficiency	s	112	%
Declared capacity for heating	for part lo	ad at indo	or	-	Declared coefficient of perfor	manco or	orimary on	oray ratio
temperature 20 °C and outdoo	•		, oi		for part load at indoor temper temperatur Tj		•	
Tj = -7°C	Pdh	4,6	kW		Tj = -7°C	COPd	1,9	-
Tj = +2°C	Pdh	3,3	kW	1	Tj = +2°C	COPd	3,06	-
Tj = +7°C	Pdh	3,5	kW		Tj = +7°C	COPd	3,55	-
Tj = +12°C	Pdh	4,4	kW		Tj = +12°C	COPd	5,35	-
Tj = bivalent temperature	Pdh	5,4	kW		Tj = bivalent temperature	COPd	1,23	-
Tj = operation limit temperature	Pdh	5,4	kW	1	Tj = operation limit temperature	COPd	1,23	-
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	1	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	0	kW	1	Cycling interval efficiency	COPcyc	0	-
Degradation co-efficient (**)	Cdh	1,00	-	_	Heating water operating limit temperature	WTOL	63	°C
Power consumption in modes	other that	n active m	ode	1	Supplementary heater			•
Off mode	Poff	0,005	kW	1	Rated heat output (**)	Psup		
Thermostat-off mode	Рто	0,003	kW	1	Nated Heat Output ()	FSup	3 x 2	kW
Standby mode	PSB	0,010	kW	1	Type of energy input			
Crankcase heater mode	PCK	0,010	kW	1	Type of energy input	el	ectrical hea	ter
Orankoase neater mode	· OIT	0,001	IKVV		<u> </u>			
Other items				1				
Capacity control		variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	1900	m³/h
Sound power level, indoors/ outdoors	LWA	64 / 35	dB		For water- or brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	QHE	3897	kWh		flow rate, outdoor heat exchanger	-	-	m³/h
For heat pump combination h	eater(***)							
Declared load profile		ХL			Water heating energy efficiency	w h	98	%
Daily electricity consumption	Qelec	8,1	kWh		Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	1710	kWh		Annual fuel consumption	AFC	-	GJ
Pdesignh, and the rated heat ou	tput of a su	pplementar	y heater Ps	sup i	the rated heat output Prated is eds equal to the supplementary cap	•	•	•
(**) If Cdh is not determined by n	neasuremei	nt then the	default deg	rada	tion coefficient is Cdh = 0,9.			
(***) In combination with indoor u	ınit HM-142	-S1						

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Model(s):						WSI	HP12
							es
Air-to-water heat pump							
Water-to-water heat pump							
Brine-to-water heat pump							no no
Low-temperature heat pump							
Equipped with a supplementary heater Heat pump combination heater							
Parameters are declared for		rature and	lication				es(***))
Parameters are declared for						yes	
Parameters are declared at v							es
urameters are decidred at v	ariabic oa	uct water	temperate			У	00
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	s	182	%
Declared capacity for heating temperature 20 °C and outdoo			oor	Declared coefficient of perfor for part load at indoor tempe 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	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 mode:	other the	n activo ~	node	Supplementary heater			
Off mode	POFF			Rated heat output (**)	Psup		
Thermostat-off mode		0.010	kW	ixateu fieat output ()	ı⁻sup	3 x 2	kW
Standby mode	PTO PSB			Type of energy input			
Crankcase heater mode	PCK	0.019	kW kW	Type or energy input	е	lectical hea	iter
Statikouse floater filloue	, or	0.041	IV V V				
Other items							
Capacity control				For air-to-water heat pumps:			
		variable		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			3/I-
Annual energy consumption	QHE	5154	kWh	flow rate, outdoor heat exchanger	-	-	m³/h
	tput of a su	pplementar nt then the	y heater Ps	, the rated heat output Prated is equal to is equal to the supplementary capacity for ation coefficient is Cdh = 0,9.			ating

4 High temperature Heating WSLHP12

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mbol	mate cond let water	dition				
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mbol ated		temperatur				es
ated			<u>e</u>		y e	es
	Value	Unit	Item	Symbol	Value	Unit
	11	kW	Seasonal space heating energy efficiency	s	125	%
part loa	ad at indo	or	Declared coefficient of perfor	mance or	primary er	ergy ratio
mperat			for part load at indoor tempe temperatur Tj			
h	9,7	kW	Tj = -7°C	COPd	2,07	-
h	6,2	kW	Tj = +2°C	COPd	3,41	-
h	7	kW	Tj = +7°C	COPd	3,94	-
h	8,5	kW	Tj = +12°C	COPd	5,70	-
h	11,3	kW	Tj = bivalent temperature	COPd	1,14	-
h	11,3	kW	Tj = operation limit temperature	COPd	1,14	-
h	/	kW	For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
V	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
ych	0	kW	Cycling interval efficiency	COPcyc	0	-
h	1,00	-	Heating water operating limit temperature	WTOL	63	°C
41	41		O			
				In		
			Rated heat output (**)	Psup	3 x 2	kW
	-,					
В			Type of energy input	el	ectrical hea	ter
K	0,041	kW				
						
	variable		For air-to-water heat pumps:	-	3800	m³/h
'A	67 / 35	dB	For water- or brine-to-water heat			
		<u> </u>		-	-	m³/h
E	7074	kWh	exchanger			
er(***)						
()	ХL		Water heating energy efficiency	w h	89	%
la a	0.0	k\//h	Daily fuel consumption	Qfuel	-	kWh
iec	9,0	LAAII	1			
lec C	1881	kWh	Annual fuel consumption	AFC	-	GJ
r r r r	ner than	1,00 1,00 1,00 1,00 1,00 1,00 1,00 0,019 0,019 0,041 variable 4 67 / 35 F 7074	1,00 - 1,00 - 1,00 - 1,00 - 1,00 - 1,00 1,00	Heating water operating limit temperature Supplementary heater Rated heat output (**) O 0,019 kW O 0,041 kW Type of energy input For air-to-water heat pumps: Rated air flow rate, outdoors For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Supplementary heater Rated heat output (**) Type of energy input For air-to-water heat pumps: Rated air flow rate, outdoors For water, outdoor heat exchanger Water heating energy efficiency Daily firel consumption	Heating water operating limit temperature Supplementary heater Rated heat output (**) Psup O 0,019 kW O 0,019 kW Type of energy input Variable For air-to-water heat pumps: Rated air flow rate, outdoors For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Supplementary heater Rated heat output (**) Psup Type of energy input el Water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency Daily fuel consumption Oftiel	Heating water operating limit temperature Supplementary heater FF