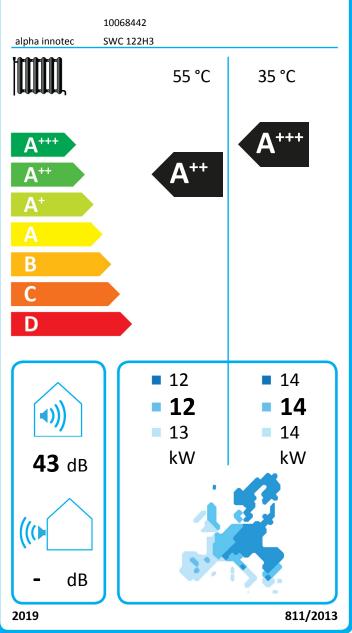
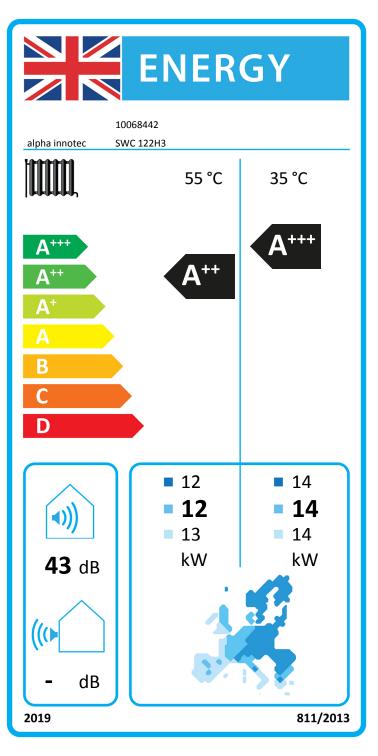


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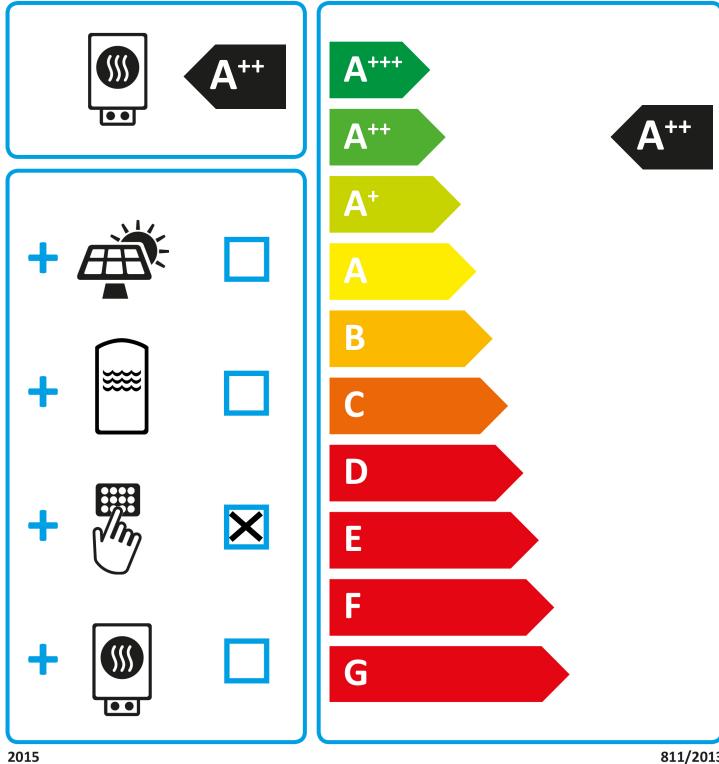


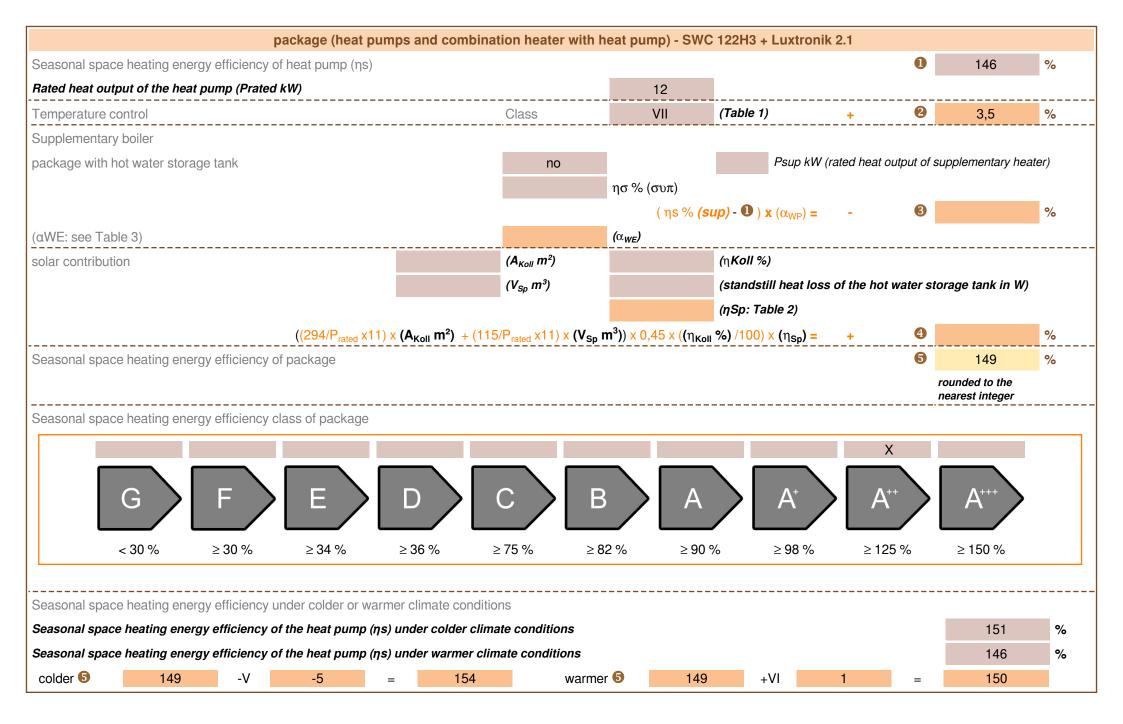


10068442

alpha innotec

SWC 122H3 + Luxtronik 2.1





heatpump datasheet:				
manufacturer:	alpha innotec			
model:	SWC 122H3			
	SWC 122H3			

Information concerning energy efficiency class and rated heat output:

	average / low	average / medium	
energy efficiency class space heater:	A+++	A++	-
rated heat output:	14	12	kW
energy efficiency space heater:	207	146	%
annual final energy consumption space heater	5325	6603	kWh

43

dB

sound power level indoors

special precautions concerning assembly, installation or maintenance

All instructional work in this manual may only be carried out by qualified specialist personnel in compliance with local regulations.

additional information	low	medium	
rated heat output colder climate	14	12	kW
rated heat output warmer climate	14	13	kW
energy effiency space heater colder climate	214	151	%
energy effiency space heater warmer climate	209	146	%
annual energy consumption space heater colder climate	6108	7577	kWh
annual energy consumption space heater warmer climate	3541	4405	kWh

technical data of the temperature controller						
manufacturer:	alpha innotec					
model:	Luxtronik 2.1					
controller class	VII	-				
contribution of the controller to the energy efficiency space heater	3,5	%				

Model				SWC 122H3				
Air-to-water heat pump: (yes/no)				no				
Brine-to-water heat pump: (yes/no)				yes				
Water-to-water heat pump: (yes/no)				no				
Low-temperature heat pump: (yes/no)				no				
Equipped with supplementary heater: (yes/no)				yes				
combination heater with: (yes/no)				no				
application: (low/medium)				medium				
climate: (colder/average/warmer)				average				
Item				Item	Symbol Value Unit			
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	ηS	145,7	%	
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20 °C and outdoo			ndoor	
Tj = -7°C	Pdh	10,9	kW	Tj = -7°C	COPd	3,19	-	
Tj = +2°C	Pdh	11,5	kW	Tj = +2°C	COPd	3,85	-	
Tj = +7°C	Pdh	11,8	kW	Tj = +7°C	COPd	4,34	-	
Tj = +12°C	Pdh	12,2	kW	Tj = +12°C	COPd	4,86	-	
Tj = bivalent temperature	Pdh	10,9	kW	Tj = bivalent temperature	COPd	3,19	-	
Tj = operation limit temperature	Pdh	10,6	kW	Tj = operation limit temperature	COPd	2,97	-	
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	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes	other than	n active mod	le	Supplementary heater			-	
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	1,7	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical		
Standby mode	P _{SB}	0,015	kW	-				
Crankcase heater mode	Р _{ск}	-	kW	-				
Other items	•							
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h	
sound power level, indoors/outdoors	L _{WA}	43 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	3	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh					
For heat pump combination h	eater:		-					
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany				
				the rated heat output Prated is equ equal to the supplementary capac			eating	
(**) If Cdh is not determined by m	neasuremen	t then the defa	ault degradat	tion coefficient is Cdh = 0,9.				

Model				SWC 122H3			
Air-to-water heat pump: (yes/no)				no			
Brine-to-water heat pump: (yes/no)				yes			
Water-to-water heat pump: (yes/no)				no			
Low-temperature heat pump: (yes/no)				no			
Equipped with supplementary heater: (yes/no)				yes			
combination heater with: (yes/no)				no			
application: (low/medium)				low			
climate: (colder/average/warmer)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	14	kW	Seasonal space heating energy efficiency	ηS	207,1	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoo			indoor
Tj = -7°C	Pdh	12,3	kW	Tj = -7°C	COPd	5,15	-
Tj = +2°C	Pdh	12,4	kW	Tj = +2°C	COPd	5,45	-
Tj = +7°C	Pdh	12,6	kW	Tj = +7°C	COPd	5,74	-
Tj = +12°C	Pdh	12,7	kW	Tj = +12°C	COPd	5,96	-
Tj = bivalent temperature	Pdh	12,3	kW	Tj = bivalent temperature	COPd	5,15	-
T_{j} = operation limit temperature	Pdh	12,2	kW	Tj = operation limit temperature	COPd	5,00	-
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	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes	other than	n active mod	le	Supplementary heater			
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	1,7	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,015	kW	-			
Crankcase heater mode	Р _{ск}	-	kW	-			
Other items			•		•		
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h
sound power level, indoors/outdoors	L _{WA}	43 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	3	m ³ /h
Emissions of nitrogen oxides	NO _X	-	mg/kWh				
For heat pump combination h	eater:						
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	ait deutsch	land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany	•		
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m		-	-				
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