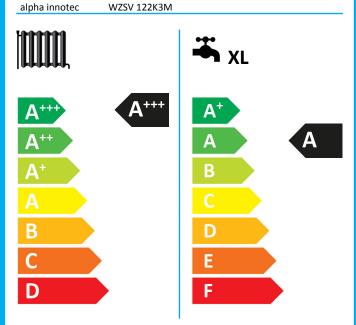
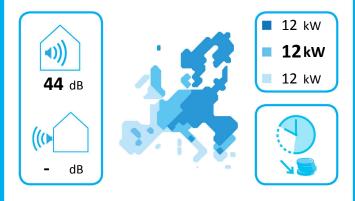
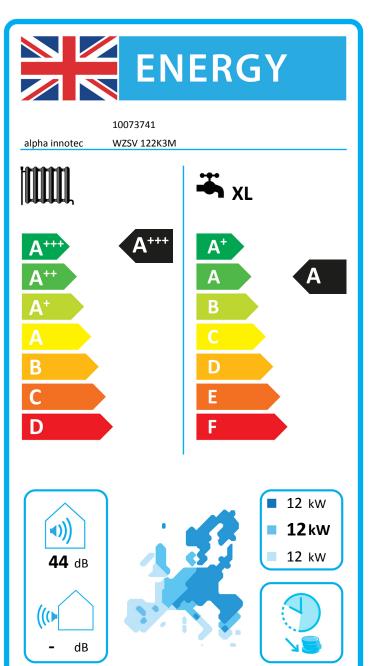


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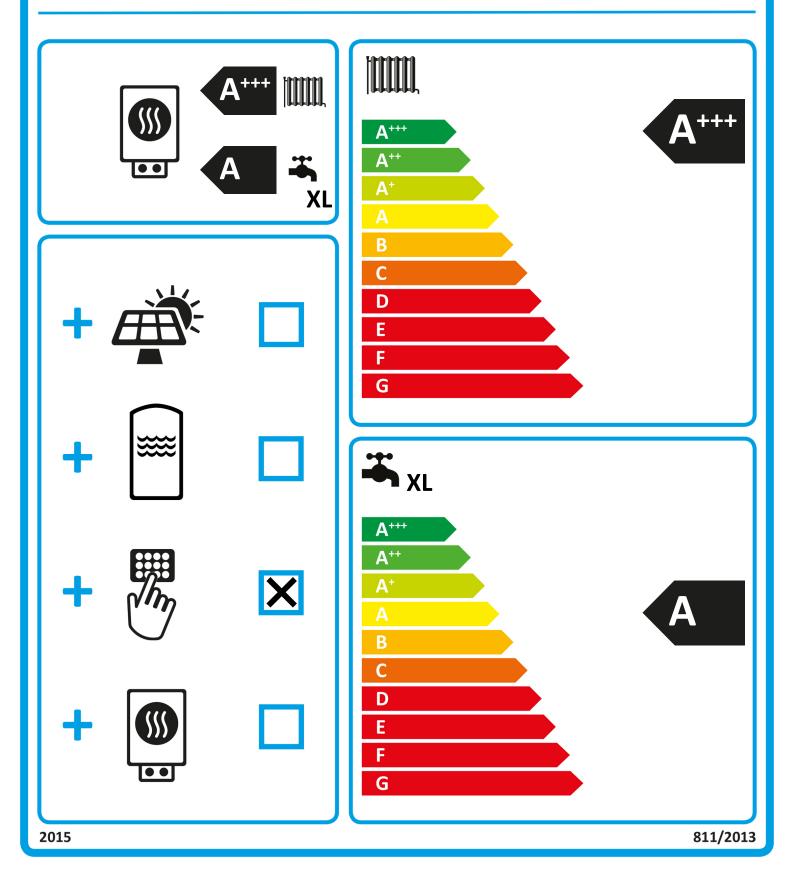


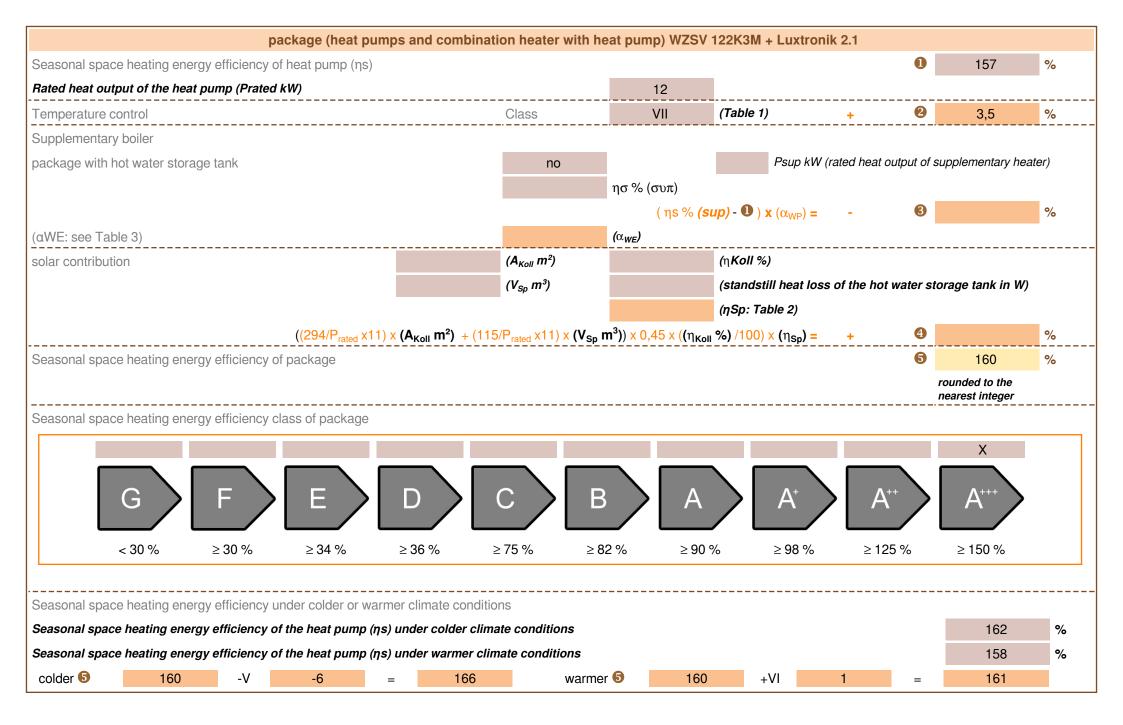


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alpha innotec

WZSV 122K3M + Luxtronik 2.1





manufacturer:					
model:	alpha innotec WZSV 122K3M				
Information concerning energy efficiency class and rated	heat output:				
load profile water heating	XL		-		
			-		
	average / low	average / medium			
energy efficiency class space heater:	A+++	A+++	-		
energy efficiency class waterheating		A	-		
rated heat output:	12	12	kW		
annual final energy consumption space heater	4588	6220	kWh		
annual electricity consumption waterheating	1709		kWh		
energy efficiency space heater:	201	157	%		
	98	44	% dB		
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or i	maintenance		dB		
sound power level indoors special precautions concerning assembly, installation or	maintenance		dB		
sound power level indoors special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by q	maintenance		dB		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information	maintenance ualified specialist personnel in c	ompliance with local regulations	dB		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information rated heat output colder climate	maintenance ualified specialist personnel in c	ompliance with local regulations medium	dB s.		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate	maintenance ualified specialist personnel in c low 12	ompliance with local regulations medium 12	dB 3. kW		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate	maintenance ualified specialist personnel in c low 12 12	mpliance with local regulations medium 12 12	dB s. kW kW		
sound power level indoors	maintenance ualified specialist personnel in c low 12 12 5293	medium 12 12 7177	dB s. kW kW kWh		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate	maintenance ualified specialist personnel in c low 12 12 5293 2924	medium 12 12 7177	dB s. kW kW kWh kWh		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate annual energy consumption waterheating colder climate	maintenance ualified specialist personnel in c low 12 12 5293 2924 1709	medium 12 12 7177	dB s. kW kWh kWh kWh		
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate ann. Electricity consumption waterheating colder climate ann. Electricity consumption waterheating warmer climate energy effiency space heater colder climate	maintenance ualified specialist personnel in c low 12 12 5293 2924 1709 1709	mpliance with local regulations medium 12 12 7177 3995	dB S. kW kW kWh kWh kWh		
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate annual energy consumption waterheating colder climate ann. Electricity consumption waterheating warmer climate	maintenance ualified specialist personnel in c low 12 12 5293 2924 1709 1709 208	medium 12 12 12 7177 3995 162	dB s. kW kWh kWh kWh kWh 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			WZSV 122K3M					
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)				yes				
application: (low/medium)				medium				
climate: (colder/average/warmer)				average				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	ηS	156,7	%	
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor	
Tj = -7°C	Pdh	11,1	kW	Tj = -7°C	COPd	3,18	-	
Tj = +2°C	Pdh	6,8	kW	Tj = +2°C	COPd	4,12	-	
Tj = +7°C	Pdh	4,4	kW	Tj = +7°C	COPd	4,67	-	
Tj = +12°C	Pdh	2,6	kW	Tj = +12°C	COPd	5,06	-	
Tj = bivalent temperature	Pdh	12,3	kW	Tj = bivalent temperature	COPd	2,91	-	
Tj = operation limit temperature	Pdh	12,3	kW	Tj = operation limit temperature	COPd	2,91	-	
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}	-10	°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	65	°C	
Power consumption in modes	other that	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0,005	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical		
Standby mode	P _{SB}	0,007	kW	1				
Crankcase heater mode	Р _{ск}	-	kW	7				
Other items				•	•			
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h	
sound power level, indoors/outdoors	L _{WA}	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	1	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh	•	-		-	
For heat pump combination h	eater:							
Declared load profile		XL		Water heating energy efficiency	η_{wh}	98	%	
Daily electricity consumption	Q _{elec}	7,784	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details				95359 Kasendorf Germany				
(*) For heat pump space heaters	and heat pu	imp combinat	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating	
(**) If Cdh is not determined by m		-			,	0 1. (. 1).		

Model				WZSV 122K3M				
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)				yes				
application: (low/medium)				low				
climate: (colder/average/warmer)				average				
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	ηS	200,9	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of perfor temperature 20°C and outdoo			ndoor		
Tj = -7°C	Pdh	10,3	kW	Tj = -7°C	COPd	4,52	-	
Tj = +2°C	Pdh	6,3	kW	Tj = +2°C	COPd	5,27	-	
Tj = +7°C	Pdh	4,1	kW	Tj = +7°C	COPd	5,60	-	
Tj = +12°C	Pdh	2,7	kW	Tj = +12°C	COPd	5,78	-	
Tj = bivalent temperature	Pdh	11,5	kW	Tj = bivalent temperature	COPd	4,26	-	
Tj = operation limit temperature	Pdh	11,5	kW	Tj = operation limit temperature	COPd	4,26	-	
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}	-10	°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	65	°C	
Power consumption in modes	other than	active mod	e	Supplementary heater	<u>.</u>		<u>.</u>	
Off mode	P _{OFF}	0,005	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical		
Standby mode	P _{SB}	0,007	kW					
Crankcase heater mode	Р _{ск}	-	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h	
sound power level, indoors/outdoors	L _{WA}	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	1	m³/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	· ·		•		-			
<u> </u>			U	,				