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alpha innotec

WZSV 122H3M











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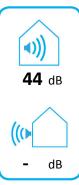
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XL XL











2019

811/2013



ENERGY

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WZSV 122H3M













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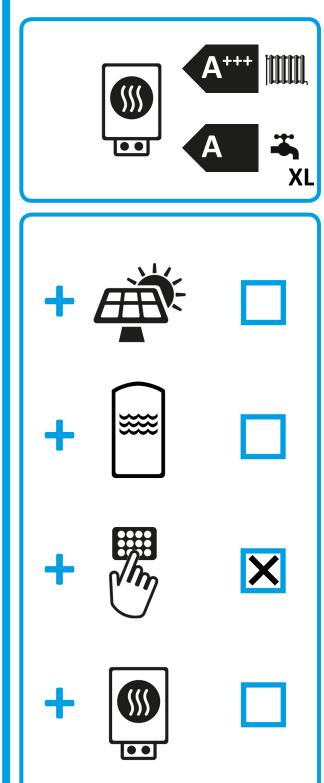


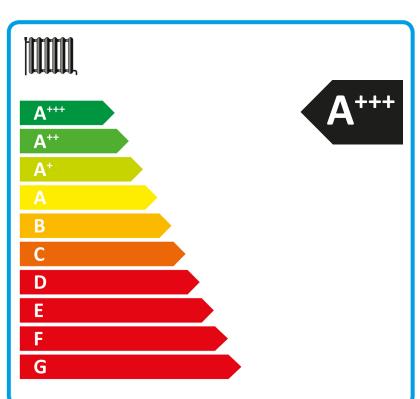
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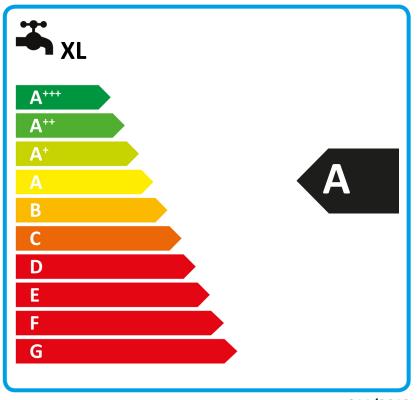
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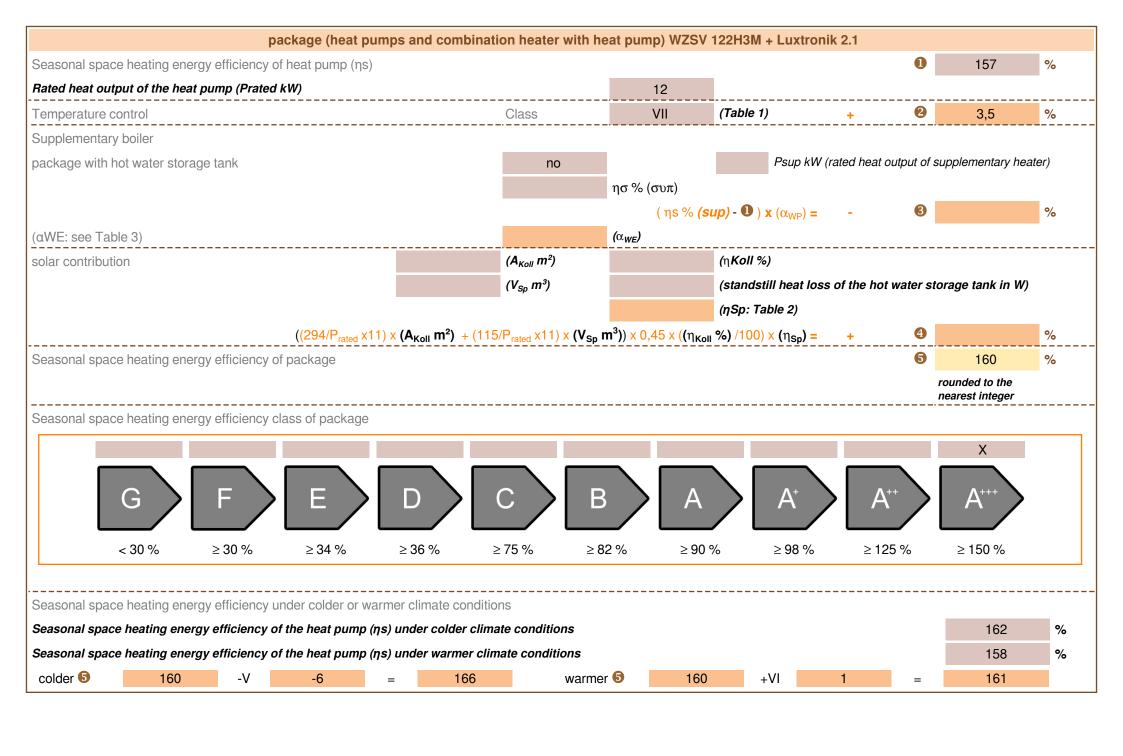
alpha innotec

WZSV 122H3M + Luxtronik 2.1









manufacturer:	alpha innotec					
model:	WZSV 122H3M					
model.	WZ3V IZZNJIVI					
Information concerning energy efficiency class and rated	heat output:					
load profile water heating	XL					
	The field from the fi					
	average / low	average / medium				
energy efficiency class space heater:	A+++	A+++	-			
energy efficiency class waterheating		Ä	-			
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				
	98		%			
	98		%			
energy efficiency waterheating sound power level indoors	98	44	% dB			
energy efficiency waterheating	98	44	1			
energy efficiency waterheating	'	44	1			
energy efficiency waterheating sound power level indoors	maintenance		dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or a	maintenance		dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or a	maintenance		dB			
energy efficiency waterheating 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 co	ompliance with local regulations	dB			
energy efficiency waterheating 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 co	ompliance with local regulations medium	dB			
energy efficiency waterheating 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 co	ompliance with local regulations medium 12	dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or a content of the content	maintenance ualified specialist personnel in co	medium 12 12	dB kW kW			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or a	maintenance ualified specialist personnel in co	medium 12 12 7177	dB kW kW kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or a concerning assembly installation or a concerning assembly, installation or a concerning assembly assem	maintenance ualified specialist personnel in co	medium 12 12 7177	dB kW kW kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or a concerning assemb	maintenance ualified specialist personnel in co low 12 12 5293 2924 1709	medium 12 12 7177	kW kWh kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or a concerning assembly installation or a concerning assembly installation or a concerning assembly installation or a concerning assembly,	maintenance ualified specialist personnel in co low 12 12 5293 2924 1709	medium 12 12 7177 3995	kW kWh kWh kWh			
energy efficiency waterheating 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 co low 12 12 12 5293 2924 1709 1709 208	medium 12 12 7177 3995	kW 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 en	ergy efficiency space heater	3,5	%			

Model				WZSV 122H3M				
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					
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	ηS	156,7	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				
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 tha	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	1	
Standby mode	P _{SB}	0,007	kW					
Crankcase heater mode	P _{CK}	-	kW					
Other items					•			
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /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		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany	•		•	
				the rated heat output Prated is equ			eating	
(**) If Cdh is not determined by m		-			-			
			-	<u> </u>				

Model				WZSV 122H3M				
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				
Item	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 outdoor			indoor		
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 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					
Crankcase heater mode	P _{CK}	-	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /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		-		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 degrada	tion coefficient is Cdh = 0,9.				