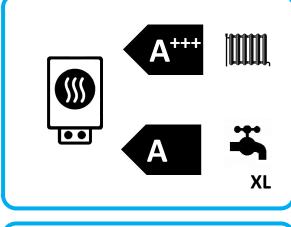


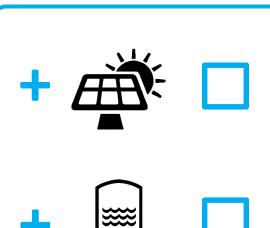


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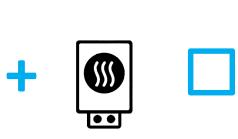
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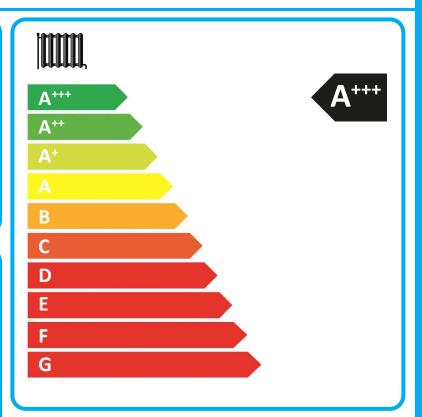
alpha innotec WZSV 122H3M + Luxtronik 2.1

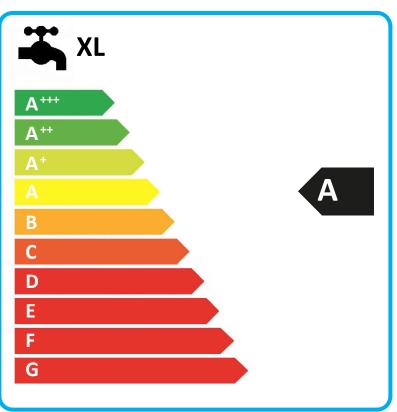


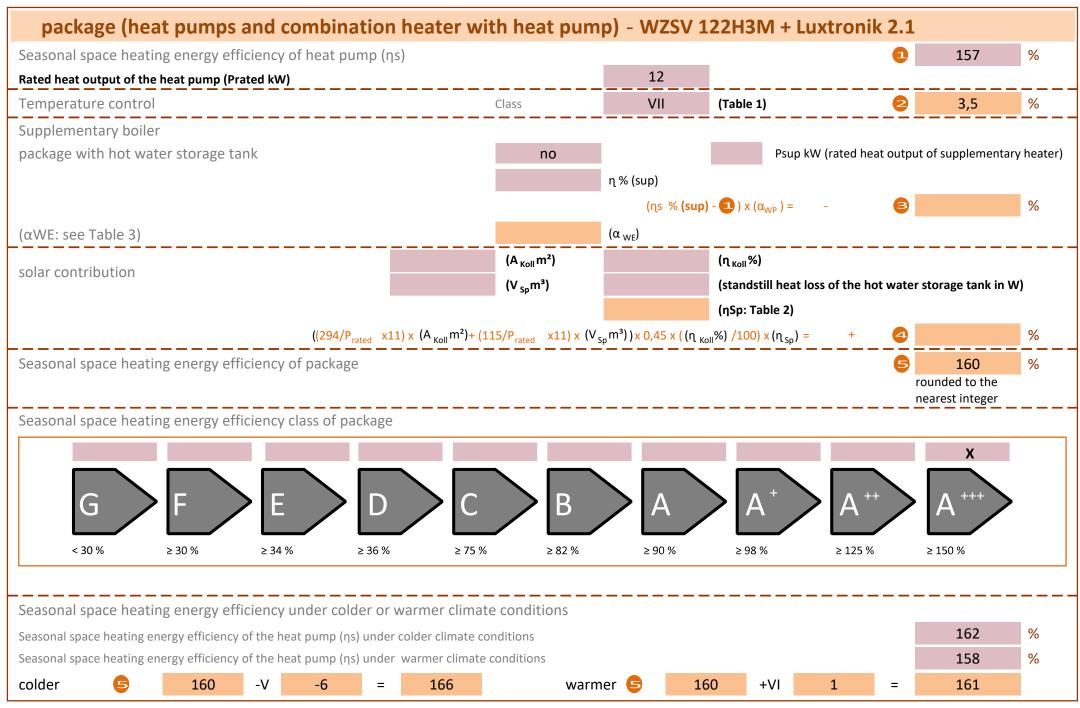












heatpump datasheet:			
manufacturer:	alpha innotec		
model:	WZSV 122H3M		
mode:	WZ3V 122H3IVI		
Information concerning energy efficiency class and rated heat output:			
load profile water heating	XL		
	average / low	average / medium	
energy efficiency class space heater:	A+++	A+++	
energy efficiency class water heating		Α	
rated heat output:	12	12	kW
annual final energy consumption space heater	4588	6220	kWl
annual electricity consumption water heating	1	709	kWl
energy efficiency space heater:	201	157	%
energy efficiency water heating		98	%
sound power level indoors		44	dB
special precautions concerning assembly, installation or maintenance			
All instructional work in this manual may only be carried out by qualified s	specialist personnel in o	compliance with local	
regulations.			
=			
additional information	low	medium	
additional information rated heat output under colder climate conditions	12	12	+
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions	12 12	12 12	kW
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions annual energy consumption space heater under colder climate conditions	12 12 5293	12 12 7177	kWl
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions annual energy consumption space heater under colder climate conditions annual energy consumption space heater under warmer climate conditions	12 12 5293 2924	12 12 7177 3995	kW kWl
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions annual energy consumption space heater under colder climate conditions annual energy consumption space heater under warmer climate conditions annual electricity consumption water heating under colder climate conditions	12 12 5293 2924	12 12 7177 3995 709	kW kWl kWl
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions annual energy consumption space heater under colder climate conditions annual energy consumption space heater under warmer climate conditions annual electricity consumption water heating under colder climate conditions annual electricity consumption water heating under warmer climate conditions	12 12 5293 2924 1	12 12 7177 3995 709	kW kWl kWl kWl
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions annual energy consumption space heater under colder climate conditions annual energy consumption space heater under warmer climate conditions annual electricity consumption water heating under colder climate conditions annual electricity consumption water heating under warmer climate conditions energy effiency space heater under colder climate conditions	12 12 5293 2924 1 208	12 12 7177 3995 709 162	kW kWl kWl kWl kWl
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions annual energy consumption space heater under colder climate conditions annual energy consumption space heater under warmer climate conditions annual electricity consumption water heating under colder climate conditions annual electricity consumption water heating under warmer climate conditions	12 12 5293 2924 1 208 204	12 12 7177 3995 709	kWl kWl kWl kWl

dB

sound power level outdoors

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	%					

 ${\tt ErP-Produktdatenblatt2_KHG}$

				ı			
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 vos				
Equipped with supplementary heater: (yes/no) combination heater with			yes 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 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	1 _
	-	<u> </u>	1				1
Tj = +7°C	Pdh	4,4	kW	Tj = +7°C	COPd	4,67	- I
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 than active mode			Supplementary heater				
Off mode	P _{OFF}	0,005	kW	Rated heat output	Psup	0	kW
Thermostat-off mode	P_{TO}	0,015	kW				
Standby mode	P _{SB}	0,007	kW	Type of energy input	electrical		
Crankcase heater mode	P _{CK}	0,000	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: brine or water flow rate, outdoor heat	Rated	1	m³/h
Emissions of nitrogen oxides	NO x	-	mg/ kWh	exchanger			
For heat pump combination heater:		<u> </u>	I KAAII	I .		1	1
		XL		Water heating energy efficiency	n	00	0/
Declared load profile Daily electricity consumption	Q _{elec}	7,784	kWh	Daily fuel consumption	η _{wh}	98 0	% kWh
	∠ eiec				Q _{fuel}		KVVII
Contact details	an h+ ''			GmbH Industriestr. 3 95359 Kasendorf Ger		a aurent	***
(*) For heat pump space heaters and heat pump combination heater Psup is equal to the supplementary capacity for heat		rated neat out	put Prated i	s equal to the design load for heating Pdesignh, and the rated	ieat output of	a suppiementa	ıy
(**) If Cdh is not determined by measurement the	n the defaul	t degradatior	coefficie	nt is Cdh = 0,9.			
						ErP-Ökodes	ign-mediur

				1			
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 vos				
Equipped with supplementary heater: (yes/no) combination heater with			yes				
			low				
application: (low/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	200,9	%
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	10,3	kW	Tj = -7°C	COPd	4,52	_
 Tj = +2°C	Pdh	6,3	kW	Tj = +2°C	COPd	5,27	1 -
Tj = +7°C	Pdh	4,1	kW	Tj = +7°C	COPd	5,6	1 .
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	СОРсус		-
Degradation co-efficient (**)	Cdh	1	_	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode			Supplementary heater				
Off mode	P _{OFF}	0,005	kW	Rated heat output	Psup	0	kW
Thermostat-off mode	P_{TO}	0,015	kW				
Standby mode	P _{SB}	0,007	kW	Type of energy input	electrical		
Crankcase heater mode	P _{CK}	0,000	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	brine or water flow rate, outdoor heat	vater-/brine-to-water heat pumps: Rated e or water flow rate, outdoor heat		m³/h
Emissions of nitrogen oxides NO _X		mg/		exchanger			
For heat pump combination heater:		I	kWh	1 1		<u>I</u>	1
. o. near pamp combination heater.				Water heating energy efficiency			
Declared load profile		- T		vvater nearing energy enitremely	$\eta_{\text{ wh}}$	-	%
Daily electricity consumption	Qelec		kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Contact details	ntact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany						
(*) 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 s (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							
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