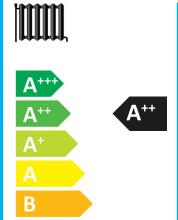
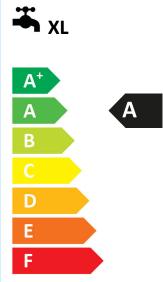


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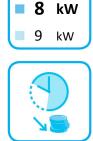
WZSV 92H3M











9

kW



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WZSV 92H3M











В

XL XL

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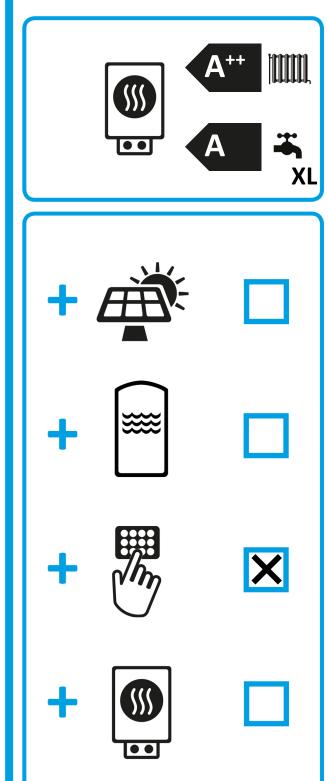


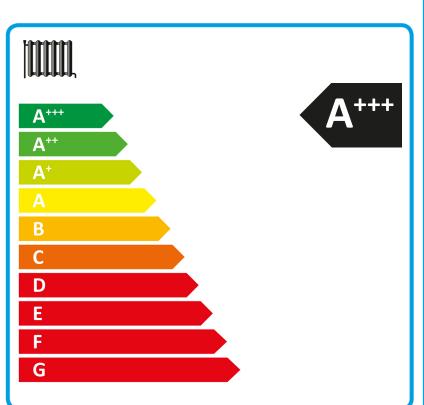
ENERG Y (JA) ehepγuя · ενεργεια (Ε) (ΙΑ)

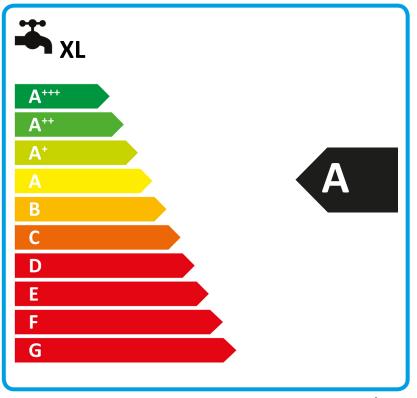
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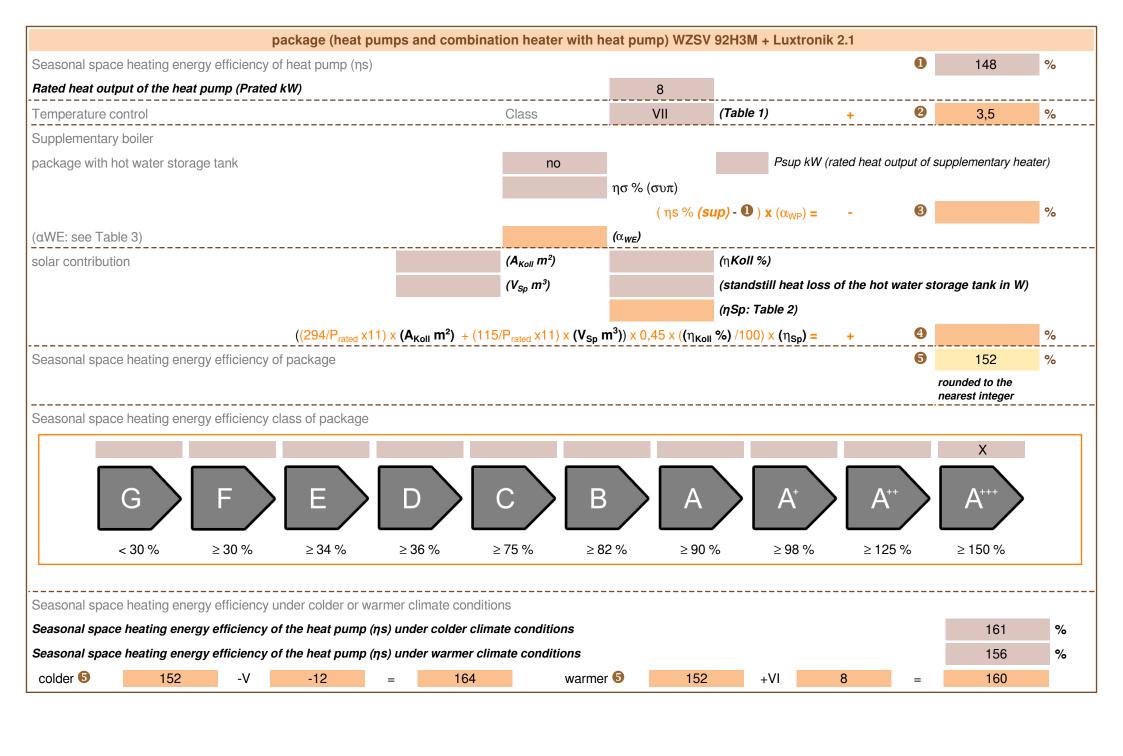
alpha innotec

WZSV 92H3M + Luxtronik 2.1









heatpump datasheet:							
manufacturer:	alpha innotec						
model:	WZSV 92H3M						
	I						
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		Ā	-				
rated heat output:	9	8	kW				
annual final energy consumption space heater	3337	3963	kWh				
annual electricity consumption waterheating	1642	<u>'</u>	kWh				
energy efficiency space heater:	203	148	%				
energy efficiency waterheating	102	•	%				
	·						
sound power level indoors		47	dB				
		<u> </u>					
special precautions concerning assembly, installation or n	naintenance						
All instructional work in this manual may only be carried out by qu	ualified specialist personnel in c	ompliance with local regulations	S.				
additional information	low	medium					
rated heat output colder climate	9	9	kW				
rated heat output warmer climate	9	9	kW				
annual energy consumption space heater colder climate	3964	4967	kWh				
annual energy consumption space heater warmer climate	2257	2763	kWh				
ann. Electricity consumption waterheating colder climate	1642	•	kWh				
ann. Electricity consumption waterheating warmer climate	1642		kWh				
energy effiency space heater colder climate	203	161	%				
energy effiency space heater warmer climate	193	156	%				
energy efficiency waterheating colder climate	102	•	%				
energy efficiency DHWwarmer climate	102		%				
	•						
sound power level outdoors		-	dB				

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	%	

Second S	Model				WZSV 92H3M				
Mater-to-water heat pump: (yes/no)									
cov-temperature heat pump; (yes/no) Guipped with supplementary heater; (yes/no) possibilitation heater with: (yes/no) possibilitatio	Brine-to-water heat pump: (yes/no)				yes				
Equipped with supplementary heater: (yes/inc) yes combination heater with: (yes/inc) yes publication: (low/medium) Illinate: (colder/average/warmer) tem Symbol Value Unit lem	Water-to-water heat pump: (yes/no)				no				
Semblination Peater with: (yes/no) Semblination Peater with: (yes/no) Semblination: (low/medium) modelum	Low-temperature heat pump: (yes/no)			no					
imate (colder/average/warmer) tem Symbol Value Unit Item Symbol Unit Item	Equipped with supplementary he	ater: (yes/no	o)		yes				
Symbol Value Unit Item Symbol Value Unit	combination heater with: (yes/no))			yes				
Symbol Value Unit Item Symbol Value Unit Rated heat output Prated 8 kW Seasonal space heating energy efficiency ηS 148,4 % Prated 9 Received Coefficient of performance for part load at indoor emperature 20°C and outdoor temperature Ti Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Ti Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Ti The provided Standard Combination Part Provided Standard Coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Ti The provided Standard Coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Ti The provided Standard Coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Ti The provided Standard Coefficient Coeff	application: (low/medium)				medium	medium			
Prace Bated heat output Bated he	climate: (colder/average/warmer)				average				
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj Tj = 7°C Pdh 6,6 kW Tj = 7°C QPdh 4,1 kW Tj = 4°C QPd 2,96 . Tj = 4°C QPdh 4,1 kW Tj = 4°C QPd 3,95 . Tj = 4°C QPdh 1,8 kW Tj = 4°C QPd 4,91 . Tj = 5°C QPd 2,86 . Tj = 5°C QPd 4,91 . Tj = 5°C QPd 2,86	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
	Rated heat output	Prated	8	kW		ηS	148,4	%	
$T_j = +2^{\circ}C \qquad Pdh \qquad 4,1 \qquad kW \qquad T_j = +2^{\circ}C \qquad COPd \qquad 3,95 \qquad -T_j = +7^{\circ}C \qquad Pdh \qquad 2,6 \qquad kW \qquad T_j = +7^{\circ}C \qquad COPd \qquad 4,55 \qquad -T_j = +7^{\circ}C \qquad Pdh \qquad 1,8 \qquad kW \qquad T_j = +7^{\circ}C \qquad COPd \qquad 4,55 \qquad -T_j = +7^{\circ}C \qquad Pdh \qquad 1,8 \qquad kW \qquad T_j = +12^{\circ}C \qquad COPd \qquad 4,91 \qquad -T_j = poration limit temperature \qquad Pdh \qquad 6,9 \qquad kW \qquad T_j = poration limit temperature \qquad COPd \qquad 2,86 \qquad -T_j = operation limit temperature \qquad Pdh \qquad 6,9 \qquad kW \qquad T_j = operation limit temperature \qquad COPd \qquad 2,86 \qquad -T_j = operation limit temperature \qquad COPd \qquad 2,86 \qquad -T_j = operation limit temperature \qquad COPd \qquad 2,86 \qquad -T_j = operation limit temperature \qquad COPd \qquad 2,86 \qquad -T_j = operation limit temperature \qquad COPd \qquad 2,86 \qquad -T_j = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad -T_j = -15$				indoor				indoor	
$ T_j = +7^{\circ}C \qquad Pdh \qquad 2,6 \qquad kW \qquad T_j = +7^{\circ}C \qquad COPd \qquad 4,55 \qquad -T_j = +12^{\circ}C \qquad Pdh \qquad 1,8 \qquad kW \qquad T_j = +12^{\circ}C \qquad COPd \qquad 4,91 \qquad -T_j = 1,12^{\circ}C \qquad Pdh \qquad 1,8 \qquad kW \qquad T_j = +12^{\circ}C \qquad COPd \qquad 4,91 \qquad -T_j = 1,12^{\circ}C \qquad COPd \qquad 2,86 \qquad -T_j = 1,12^{\circ}C \qquad -T_j =$	Tj = -7°C	Pdh	6,6	kW	Tj = -7°C	COPd	2,96	-	
Tj = +12°C Pdh 1,8 kW Tj = +12°C COPd 4,91 - Tj = bivalent temperature Pdh 6,9 kW Tj = bivalent temperature COPd 2,86 - Tj = operation limit temperature Pdh 6,9 kW Tj = bivalent temperature COPd 2,86 - Tj = operation limit temperature Pdh 6,9 kW Tj = operation limit temperature COPd 2,82 - To air-to-water heat pumps: Tj Pdh - kW For air-to-water heat pumps: Tj COPd - Te -15°C (if TOL < -20°C) Pdh Te -10°C P	Tj = +2°C	Pdh	4,1	kW	Tj = +2°C	COPd	3,95	-	
Tj = bivalent temperature Pdh 6,9 kW Tj = bivalent temperature COPd 2,86 - Tj = operation limit temperature Pdh 6,9 kW Tj = operation limit temperature COPd 2,82 - Tj = operation limit temperature Pdh 6,9 kW Tj = operation limit temperature COPd 2,82 - Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: ToL = -10 °C T	Tj = +7°C	Pdh	2,6	kW	Tj = +7°C	COPd	4,55	-	
Tj = operation limit temperature Pdh 6,9 kW Tj = operation limit temperature COPd 2,82 - For air-to-water heat pumps: Tj	Tj = +12°C	Pdh	1,8	kW	Tj = +12°C	COPd	4,91	-	
For air-to-water heat pumps: Tj = 15°C (if TOL < -20°C) Sivalent temperature Temp	Tj = bivalent temperature	Pdh	6,9	kW	Tj = bivalent temperature	COPd	2,86	-	
=-15 °C (if TOL <-20 °C) Bivalent temperature Toby -8 °C For air-to-water heat pumps: Operation limit temperature Toby Operation limit temperature Cycling interval capacity for heating Peych - kW Cycling interval efficiency Cycling interval efficie	Tj = operation limit temperature	Pdh	6,9	kW	Tj = operation limit temperature	COPd	2,82	-	
Operation limit temperature Cycling interval capacity for leating Degradation co-efficient (**) Cycling interval efficiency Cycling interval effeter Cycling interval efficiency Cycling interval effeter Cycling interval effeter Cycling interval effeter Cycling interval	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW		COPd	-	-	
Degradation co-efficient (**) Cdh 1,0 - Heating water operating limit wTOL Bupplementary heater Supplementary heater Supplemen	Bivalent temperature	T _{biv}	-8	°C	• •	TOL	-10	°C	
Power consumption in modes other than active mode Off mode Poff	Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Off mode	Degradation co-efficient (**)	Cdh	1,0	-		WTOL	65	°C	
Thermostat-off mode	Power consumption in modes	other thai	active mod	e	Supplementary heater	•			
Thermostat-off mode	Off mode	P _{OFF}	0,012	kW	Rated heat output	Psup	-	kW	
Crankcase heater mode	Thermostat-off mode		0,019	kW	Type of energy input		electrical		
Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors For heat pump combination heater: Capacity consumption Qelec 7,478 Wh Contact details Por water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency \$\eta_{\text{wh}}\$ 102 \$\text{wh}\$ Contact details For heat pump space heaters and heat pump combination heaters; the rated heat output Prated is equal to the design load for heating energy energy for heating sup(Tj).	Standby mode	P_{SB}	0,012	kW					
Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Water heating energy efficiency Daily electricity consumption Qelec 7,478 RWh Daily fuel consumption Qfuel Authority Contact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany To 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 sup(Tj).	Crankcase heater mode	P _{CK}	-	kW					
Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Water heating energy efficiency Ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany To heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating energy supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Other items				_		_	_	
pumps: Rated brine or water flow rate, outdoor heat exchanger Emissions of nitrogen oxides NO _X - mg/kWh For heat pump combination heater: Declared load profile XL Water heating energy efficiency η_{wh} 102 % Daily electricity consumption Q _{elec} 7,478 kWh Daily fuel consumption Qfuel - kWh Contact 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 sup(Tj).	Capacity control		variable			-	-	m ³ /h	
For heat pump combination heater: Declared load profile XL Water heating energy efficiency η_{wh} 102 % Daily electricity consumption Q_{elec} 7,478 kWh Daily fuel consumption Qfuel - kWh Contact 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 sup(Tj).	sound power level, indoors/outdoors	L _{WA}	47 / -	dB	pumps: Rated brine or water flow rate, outdoor heat	-	1	m ³ /h	
Declared load profile XL Water heating energy efficiency \$\eta_{wh}\$ 102 % Daily electricity consumption Qelec 7,478 kWh Daily fuel consumption Qfuel - kWh Contact 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 sup(Tj).	Emissions of nitrogen oxides	NO _X	-	mg/kWh					
Daily electricity consumption Qelec 7,478 kWh Daily fuel consumption Qfuel kWh Contact 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 sup(Tj).	For heat pump combination h	eater:							
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 sup(Tj).	Declared load profile		XL		Water heating energy efficiency	η_{wh}	102	%	
*) 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 sup(Tj).	Daily electricity consumption	Q _{elec}	7,478	kWh	Daily fuel consumption	Qfuel	-	kWh	
Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Contact details	ait deutsch	land GmbH Ir	dustriestr. 3	95359 Kasendorf Germany				
								eating	
	(**) If Cdh is not determined by m	neasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.				

Model				WZSV 92H3M				
				no				
Brine-to-water heat pump: (yes/no)				yes				
Water-to-water heat pump: (yes/no)				no				
Low-temperature heat pump: (ye	s/no)			no				
Equipped with supplementary he	ater: (yes/no	D)		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	9	kW	Seasonal space heating energy efficiency	ηS	202,5	%	
Declared coefficient of perfor temperature 20°C and outdoor			indoor		Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	7,5	kW	Tj = -7°C	COPd	4,01	-	
Tj = +2°C	Pdh	4,6	kW	Tj = +2°C	COPd	5,33	-	
Tj = +7°C	Pdh	3,0	kW	Tj = +7°C	COPd	6,11	-	
Tj = +12°C	Pdh	1,7	kW	Tj = +12°C	COPd	6,64	-	
Tj = bivalent temperature	Pdh	7,9	kW	Tj = bivalent temperature	COPd	3,82	-	
Tj = operation limit temperature	Pdh	7,9	kW	Tj = operation limit temperature	COPd	3,78	-	
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}	-8	°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	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0,012	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	P _{TO}	0,019	kW	Type of energy input		electrical	•	
Standby mode	P _{SB}	0,012	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}	47 / -	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	ait deutsch	land GmbH Ir	dustriestr. 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.				
						•		