

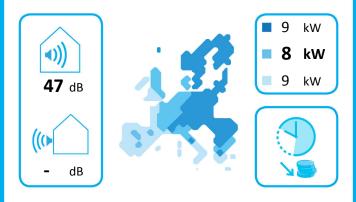
ЕNERG У ИА енергия · ενεργεια (Ε) (А)

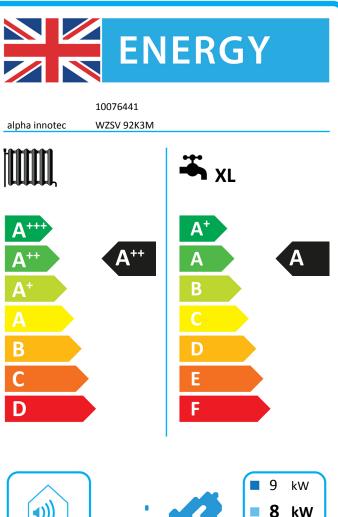
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alpha innotec











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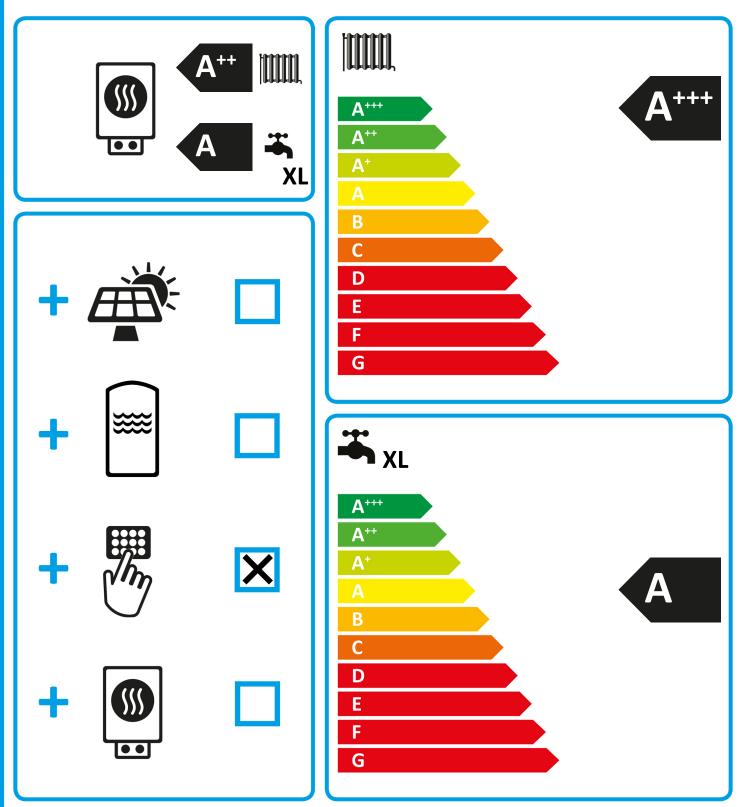


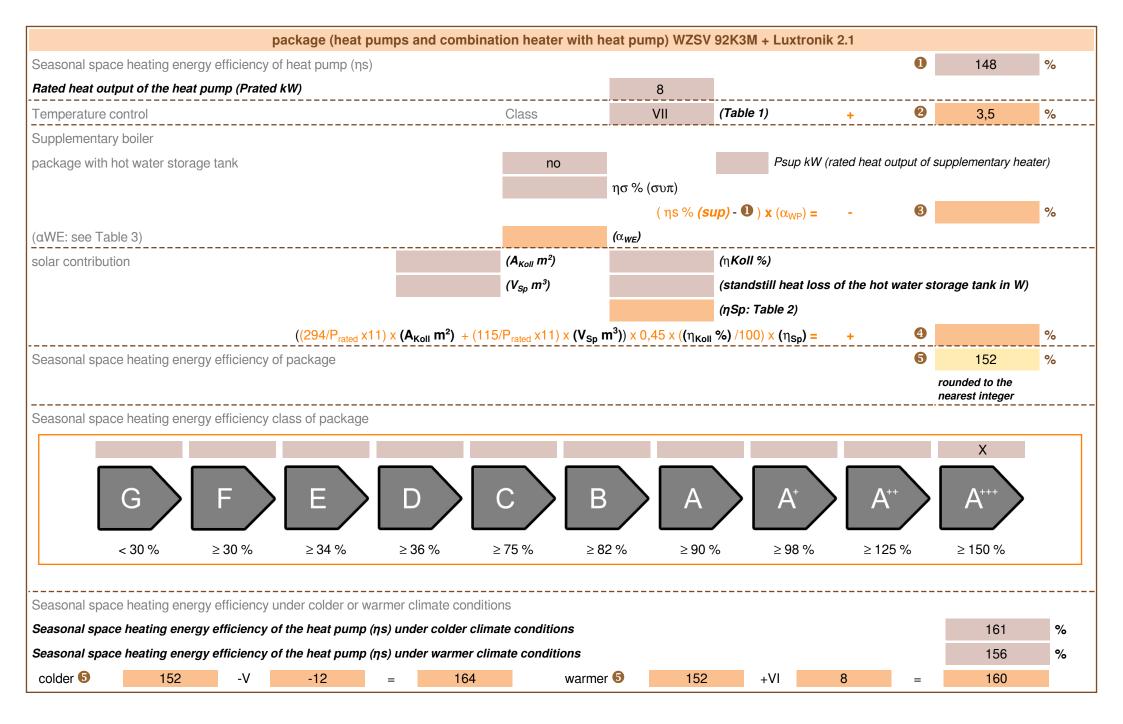
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alpha innotec

WZSV 92K3M + Luxtronik 2.1





manufacturer:	alpha innotec					
model:	WZSV 92K3M					
Information concerning energy efficiency class and rat	ed heat output:					
load profile water heating	XL		-			
	average / low	average / medium				
energy efficiency class space heater:	A+++	A++	-			
energy efficiency class waterheating		А	-			
rated heat output:	9	8	kW			
annual final energy consumption space heater	3337	3963	kWh			
annual electricity consumption waterheating	1642		kWh			
	202	148	%			
energy efficiency space heater:	203	140	/*			
energy efficiency waterheating	102	47	dB			
energy efficiency space heater: energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation All instructional work in this manual may only be carried out b	102 or maintenance	47	% dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation All instructional work in this manual may only be carried out b	102 or maintenance y qualified specialist personnel in c	47 ompliance with local regulations	% dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation All instructional work in this manual may only be carried out b additional information	102 or maintenance y qualified specialist personnel in c low	47 ompliance with local regulations medium	% dB 3.			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation All instructional work in this manual may only be carried out b additional information rated heat output colder climate	102 or maintenance y qualified specialist personnel in c low 9	47 ompliance with local regulations medium 9	% dB 3. kW			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation of All instructional work in this manual may only be carried out b additional information rated heat output colder climate rated heat output warmer climate	102 or maintenance y qualified specialist personnel in c low 9 9 9	47 ompliance with local regulations medium 9 9	% dB s. kW kW			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation All instructional work in this manual may only be carried out b additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate	102 or maintenance y qualified specialist personnel in c low 9 9 3964	47 ompliance with local regulations medium 9 9 9 4967	% dB s. kW kW kW			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation All instructional work in this manual may only be carried out b 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	102 or maintenance y qualified specialist personnel in c low 9 9 3964 2257	47 ompliance with local regulations medium 9 9	% dB s. kW kW kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation of All instructional work in this manual may only be carried out b 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 space heater warmer climate annual energy consumption space heater warmer climate	102 or maintenance y qualified specialist personnel in c low 9 9 3964 2257 1642	47 ompliance with local regulations medium 9 9 9 4967	% dB 3. kW kW kWh kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation All instructional work in this manual may only be carried out b additional information rated heat output colder climate rated heat output colder climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate annual energy consumption space heater warmer climate ann. Electricity consumption waterheating colder climate ann. Electricity consumption waterheating warmer climate	102 or maintenance y qualified specialist personnel in c low 9 9 2257 1642 1642	47 ompliance with local regulations 9 9 4967 2763	% dB 3. kW kW kWh kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation of All instructional work in this manual may only be carried out b 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	102 or maintenance y qualified specialist personnel in c y qualified specialist personnel in c low 9 9 3964 2257 1642 1642 203	47 ompliance with local regulations 9 9 4967 2763	% dB 3. kW kWh kWh kWh kWh kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation of All instructional work in this manual may only be carried out b 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 space heater warmer climate annual energy consumption space heater warmer climate	102 or maintenance y qualified specialist personnel in c low 9 9 2257 1642 1642	47 ompliance with local regulations 9 9 4967 2763	% dB s. kW kW 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 92K3M					
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	8	kW	Seasonal space heating energy efficiency	ηS	148,4	%	
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoo			ndoor	
Tj = -7°C	Pdh	6,6	kW	Tj = -7°C	COPd	2,96	-	
Tj = +2°C	Pdh	4,1	kW	Tj = +2°C	COPd	3,95	-	
Tj = +7°C	Pdh	2,6	kW	Tj = +7°C	COPd	4,55	-	
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 = operation limit temperature	COPd	2,82	-	
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	le	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	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}	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		XL		Water heating energy efficiency	η_{wh}	102	%	
Daily electricity consumption	Q _{elec}	7,478	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details	1			95359 Kasendorf Germany				
(*) For heat pump space heaters	and heat pu	Imp combinat	ion heaters,	the rated heat output Prated is equ			eating	
(**) If Cdh is not determined by n					.,	<u> </u>		

Model				WZSV 92K3M				
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	9	kW	Seasonal space heating energy efficiency	ηS	202,5	%	
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor	
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	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}	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		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany			•	
	put of a sup	plementary he	eater Psup is	the rated heat output Prated is equ equal to the supplementary capac tion coefficient is Cdh = 0.9.			eating	