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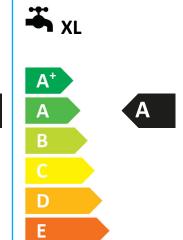
alpha innotec

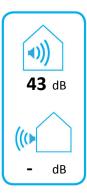
WZS 42H3M

















ENERGY

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WZS 42H3M











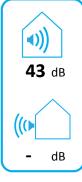
















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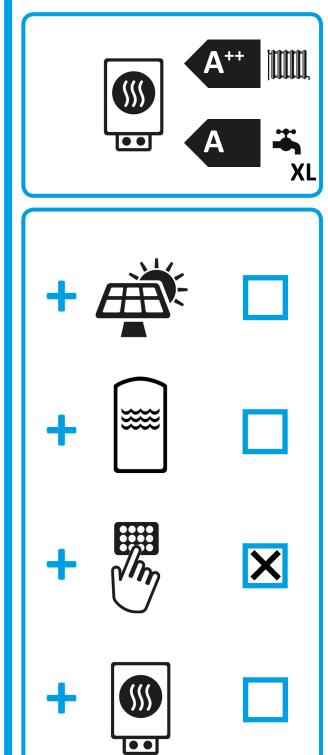


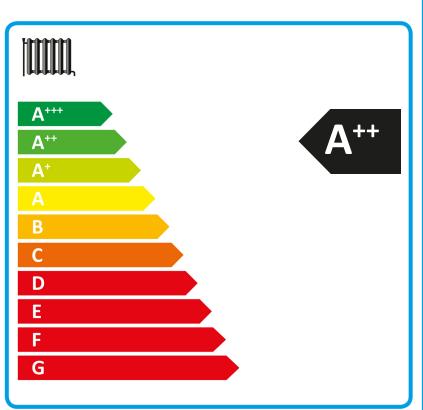
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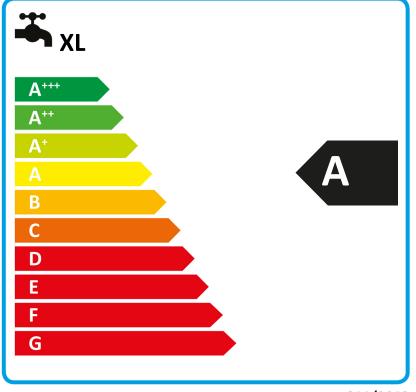
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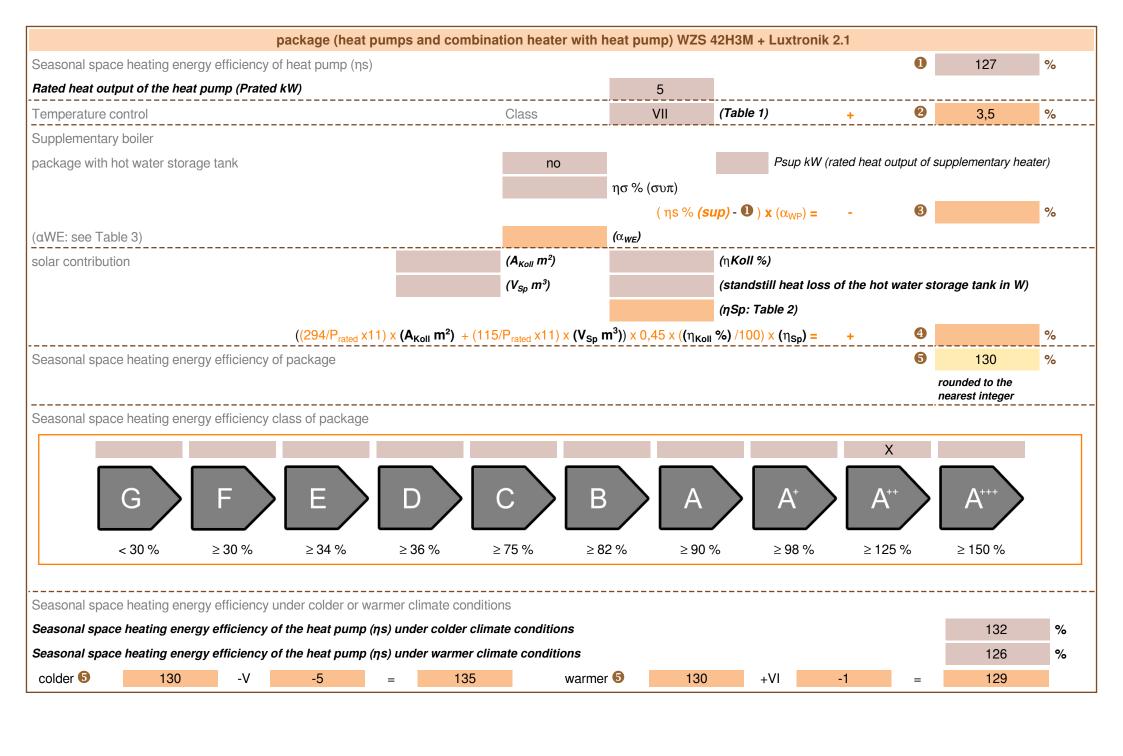
alpha innotec

WZS 42H3M + Luxtronik 2.1









heatpump datasheet:					
manufacturer:	alpha innotec				
model:	WZS 42H3M				
	•				
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:	6	5	kW		
annual final energy consumption space heater	2304	2954	kWh		
annual electricity consumption waterheating	1782		kWh		
energy efficiency space heater:	191	127	%		
energy efficiency waterheating	94		%		
			•		
sound power level indoors		43	dB		
			•		
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	i.		
additional information	low	medium			
rated heat output colder climate	6	5	kW		
rated heat output warmer climate	6	5	kW		
annual energy consumption space heater colder climate	2634	3382	kWh		
annual energy consumption space heater warmer climate	1556	1993	kWh		
ann. Electricity consumption waterheating colder climate	1782		kWh		
ann. Electricity consumption waterheating warmer climate	1782		kWh		
energy effiency space heater colder climate	198	132	%		
energy effiency space heater warmer climate	190	126	%		
energy efficiency waterheating colder climate	94		%		
energy efficiency DHWwarmer climate	94		%		
	•		•		

technical data of the temperature controller						
manufacturer:		alpha innotec				
model:	Luxtronik 2.1					
controller class		VII	-			
contribution of the controller to the ϵ	energy efficiency space heater	3,5	%			

Model				WZS 42H3M			
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	5	kW	Seasonal space heating energy efficiency	ηS	126,8	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	4,3	kW	Tj = -7°C	COPd	2,79	-
Tj = +2°C	Pdh	4,5	kW	Tj = +2°C	COPd	3,45	-
Tj = +7°C	Pdh	4,7	kW	Tj = +7°C	COPd	3,93	-
Tj = +12°C	Pdh	4,9	kW	Tj = +12°C	COPd	4,35	-
Tj = bivalent temperature	Pdh	4,3	kW	Tj = bivalent temperature	COPd	2,79	-
Tj = operation limit temperature	Pdh	4,2	kW	Tj = operation limit temperature	COPd	2,58	-
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}	-7	°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	60	°C
Power consumption in modes	other than	n active mod	e	Supplementary heater			
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,015	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /h
sound power level, indoors/outdoors	L _{WA}	43 / -	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}	94	%
Daily electricity consumption	Q _{elec}	8,115	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	ait deutsch	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.			

Model				WZS 42H3M				
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	6	kW	Seasonal space heating energy efficiency	ηS	190,7	%	
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	4,9	kW	Tj = -7°C	COPd	4,87	-	
Tj = +2°C	Pdh	5,0	kW	Tj = +2°C	COPd	5,17	-	
Tj = +7°C	Pdh	5,0	kW	Tj = +7°C	COPd	5,46	-	
Tj = +12°C	Pdh	5,1	kW	Tj = +12°C	COPd	5,54	-	
Tj = bivalent temperature	Pdh	4,9	kW	Tj = bivalent temperature	COPd	4,87	-	
Tj = operation limit temperature	Pdh	4,9	kW	Tj = operation limit temperature	COPd	4,70	-	
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}	-7	°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	60	°C	
Power consumption in modes	other thai	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	0,7	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical		
Standby mode	P _{SB}	0,015	kW					
Crankcase heater mode	P _{CK}	-	kW					
Other items								
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /h	
sound power level, indoors/outdoors	L _{WA}	43 / -	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		•						
•								