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alpha innotec

PWZSV 62H3S













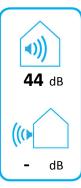




















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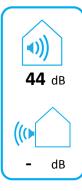
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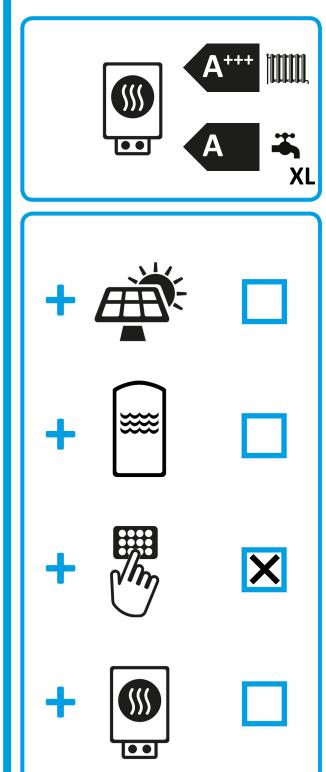


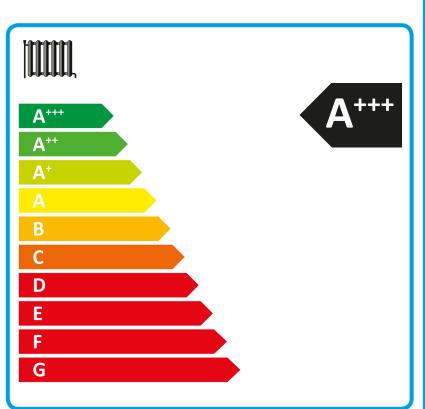
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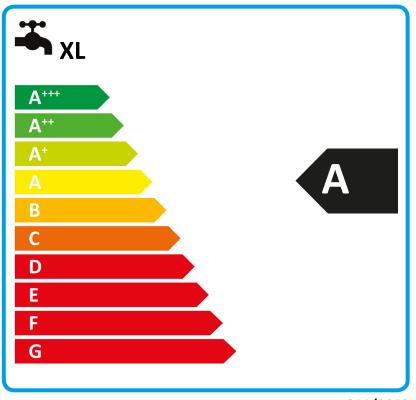
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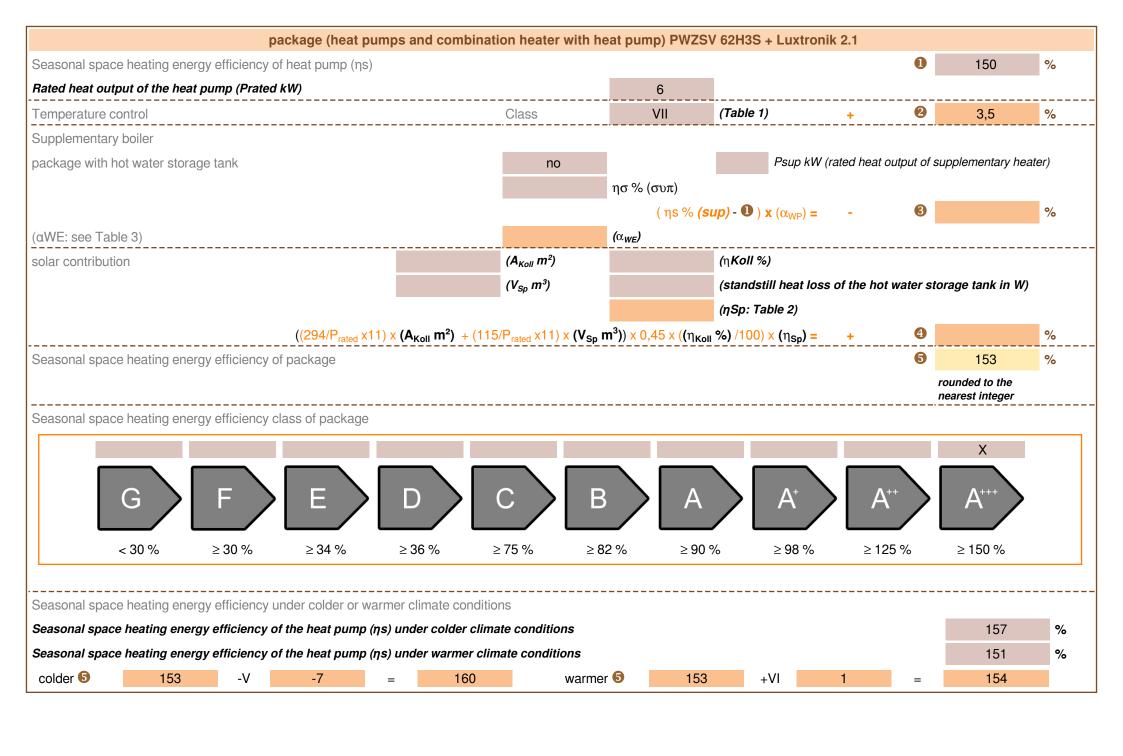
alpha innotec

PWZSV 62H3S + Luxtronik 2.1









heatpump datasheet:					
The production of the producti					
manufacturer:	alpha innotec				
model:	PWZSV 62H3S	-			
	·				
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		Ä	-		
rated heat output:	6	6	kW		
annual final energy consumption space heater	2192	2878	kWh		
annual electricity consumption waterheating	1675		kWh		
energy efficiency space heater:	199	150	%		
energy efficiency waterheating	100	•	%		
	•				
sound power level indoors		44	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 co	ompliance with local regulations	i.		
additional information	low	medium			
rated heat output colder climate	6	6	kW		
rated heat output warmer climate	6	6	kW		
annual energy consumption space heater colder climate	2482	3288	kWh		
annual energy consumption space heater warmer climate	1402	1851	kWh		
ann. Electricity consumption waterheating colder climate	1675	•	kWh		
ann. Electricity consumption waterheating warmer climate	1675				
energy effiency space heater colder climate	210	157	%		
energy effiency space heater warmer climate	202	151	%		
energy efficiency waterheating colder climate	100	•	%		
energy efficiency DHWwarmer climate	100		%		
	•				
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 ϵ	energy efficiency space heater	3,5	%			

Model				PWZSV 62H3S			
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	6	kW	Seasonal space heating energy efficiency	ηS	149,9	%
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	5,0	kW	Tj = -7°C	COPd	3,06	-
Tj = +2°C	Pdh	3,0	kW	Tj = +2°C	COPd	3,97	-
Tj = +7°C	Pdh	2,0	kW	Tj = +7°C	COPd	4,63	
Tj = +12°C	Pdh	1,2	kW	Tj = +12°C	COPd	4,86	-
Tj = bivalent temperature	Pdh	5,4	kW	Tj = bivalent temperature	COPd	2,84	-
Tj = operation limit temperature	Pdh	5,4	kW	Tj = operation limit temperature	COPd	2,84	-
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 thai	active mod	e	Supplementary heater			•
Off mode	P _{OFF}	0,002	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,007	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,007	kW				
Crankcase heater mode	P _{CK}	0,009	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}	100	%
Daily electricity consumption	Q _{elec}	7,628	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 degradat	tion coefficient is Cdh = 0,9.			

Model				PWZSV 62H3S			
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	199,4	%
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	5,0	kW	Tj = -7°C	COPd	4,37	-
Tj = +2°C	Pdh	3,1	kW	Tj = +2°C	COPd	5,24	-
Tj = +7°C	Pdh	2,0	kW	Tj = +7°C	COPd	5,92	-
Tj = +12°C	Pdh	1,3	kW	Tj = +12°C	COPd	5,95	-
Tj = bivalent temperature	Pdh	5,4	kW	Tj = bivalent temperature	COPd	4,15	-
Tj = operation limit temperature	Pdh	5,4	kW	Tj = operation limit temperature	COPd	4,15	-
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}	0,002	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,007	kW	Type of energy input		electrical	
Standby mode	P_{SB}	0,007	kW				
Crankcase heater mode	P _{CK}	0,009	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.		•	