

10075441

alpha innotec

PWZSV 122H3S











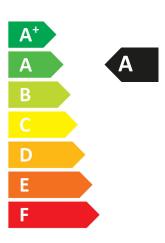






















10075441

alpha innotec

PWZSV 122H3S







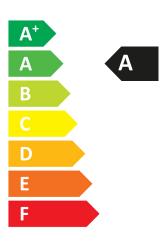


















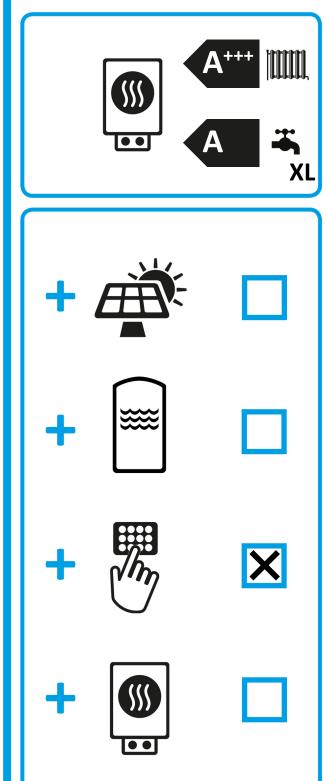


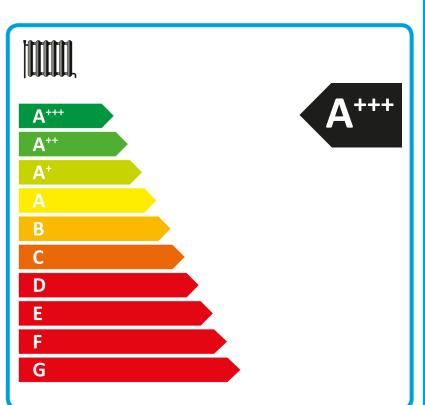
## ENERG Y (JA) ehepγuя · ενεργεια (Ε) (ΙΑ)

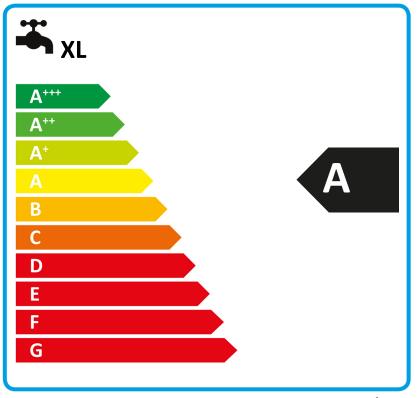
10075441

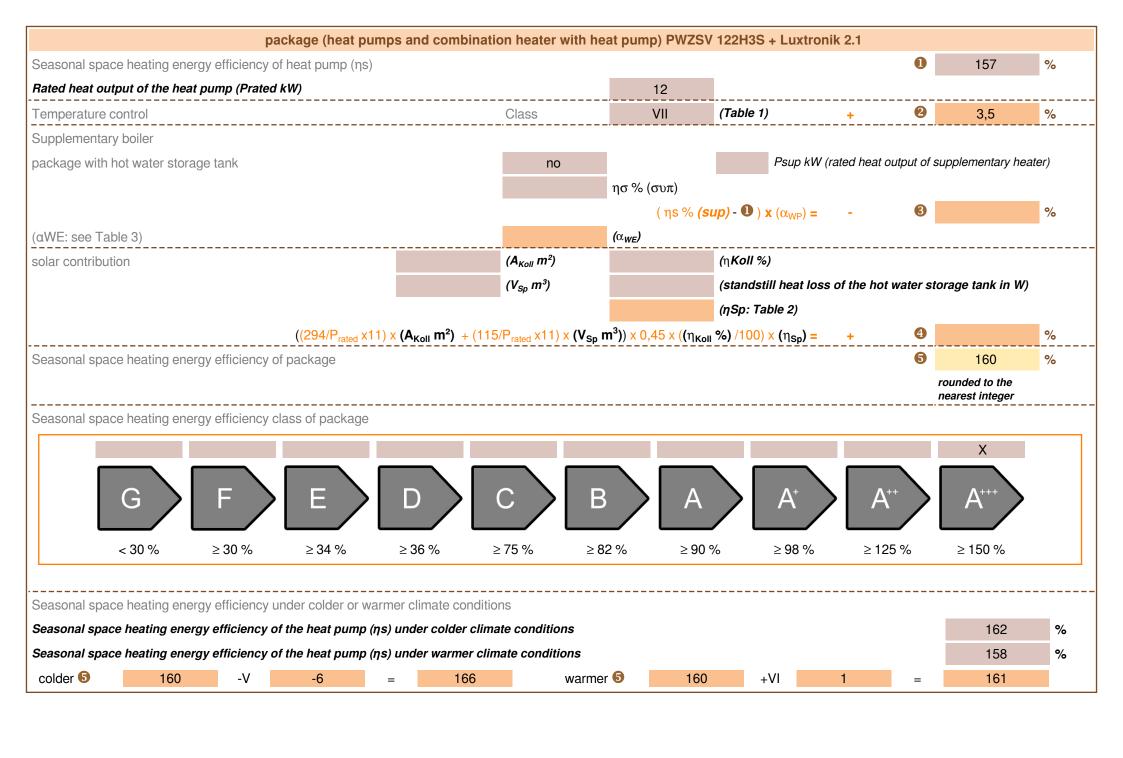
alpha innotec

PWZSV 122H3S + Luxtronik 2.1









heatpump datasheet:				
manufacturer:	alpha innotec			
model:	PWZSV 122H3S			
	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		A	-	
rated heat output:	12	12	kW	
annual final energy consumption space heater	4588	6220	kWh	
annual electricity consumption waterheating	1745	:	kWh	
energy efficiency space heater:	201	157	%	
energy efficiency waterheating	96		%	
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	S	
			_	
additional information	low	medium		
rated heat output colder climate	12	12	kW	
rated heat output warmer climate	12	12	kW	
annual energy consumption space heater colder climate	5293	7177	kWh	
annual energy consumption space heater warmer climate	2924	3995	kWh	
ann. Electricity consumption waterheating colder climate	1745		kWh	
ann. Electricity consumption waterheating warmer climate	1745		kWh	
energy effiency space heater colder climate	208	162	%	
energy effiency space heater warmer climate	204	158	%	
energy efficiency waterheating colder climate	96		%	
energy efficiency DHWwarmer climate	96		%	
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 energy efficiency space heater		3,5	%			

Air-to-water heat pump: (yes/no)							
	Air-to-water heat pump: (yes/no)			no			
Brine-to-water heat pump: (yes/no)			yes				
Water-to-water heat pump: (yes/no)			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	12	kW	Seasonal space heating energy efficiency	ηS	156,7	%
Declared coefficient of perform temperature 20°C and outdoor			ndoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
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	-
Tj = +7°C	Pdh	4,4	kW	Tj = +7°C	COPd	4,67	-
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 thar	active mod	e	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,005	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	
Standby mode	$P_{SB}$	0,007	kW				
Crankcase heater mode	$P_{CK}$	-	kW				
Other items				_			
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	•	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	1	1	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh				
For heat pump combination he	ater:						
Declared load profile		XL		Water heating energy efficiency	$\eta_{wh}$	96	%
Daily electricity consumption	Q <sub>elec</sub>	7,946	kWh	Daily fuel consumption	Qfuel		kWh
Contact details	ait deutsch	land GmbH In	dustriestr. 3	95359 Kasendorf Germany			
(*) For heat pump space heaters a Pdesignh, and the rated heat output				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by me	easuremen	t then the defa	ıult degradat	tion coefficient is Cdh = 0,9.			

Model				PWZSV 122H3S			
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	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	-
Tj = +7°C	Pdh	4,1	kW	Tj = +7°C	COPd	5,60	-
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 <sub>biv</sub>	-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 <sub>OFF</sub>	0,005	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	1
Standby mode	$P_{SB}$	0,007	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
Other items					•		
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	1	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh				
For heat pump combination h	eater:						
Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	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		-					