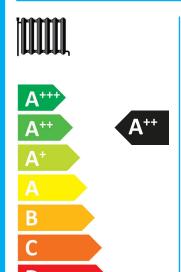
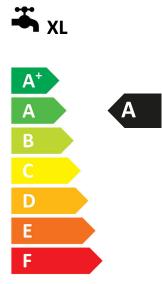


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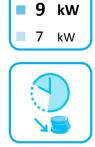
LWV 122R3-HSV 12.1M3











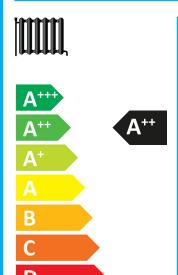
kW

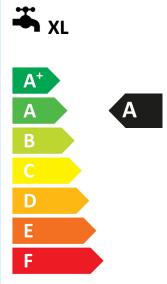


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LWV 122R3-HSV 12.1M3











kW

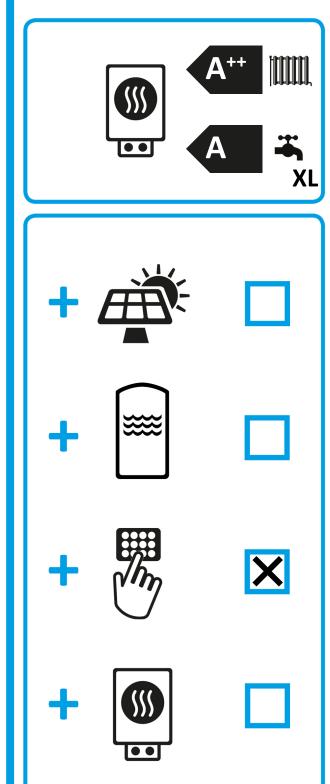


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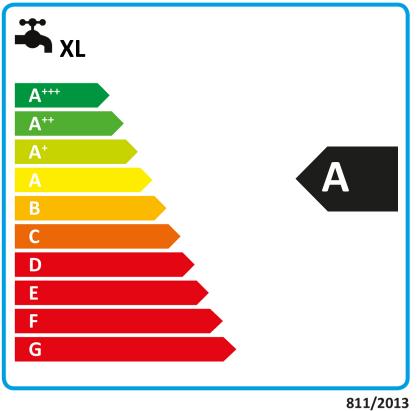
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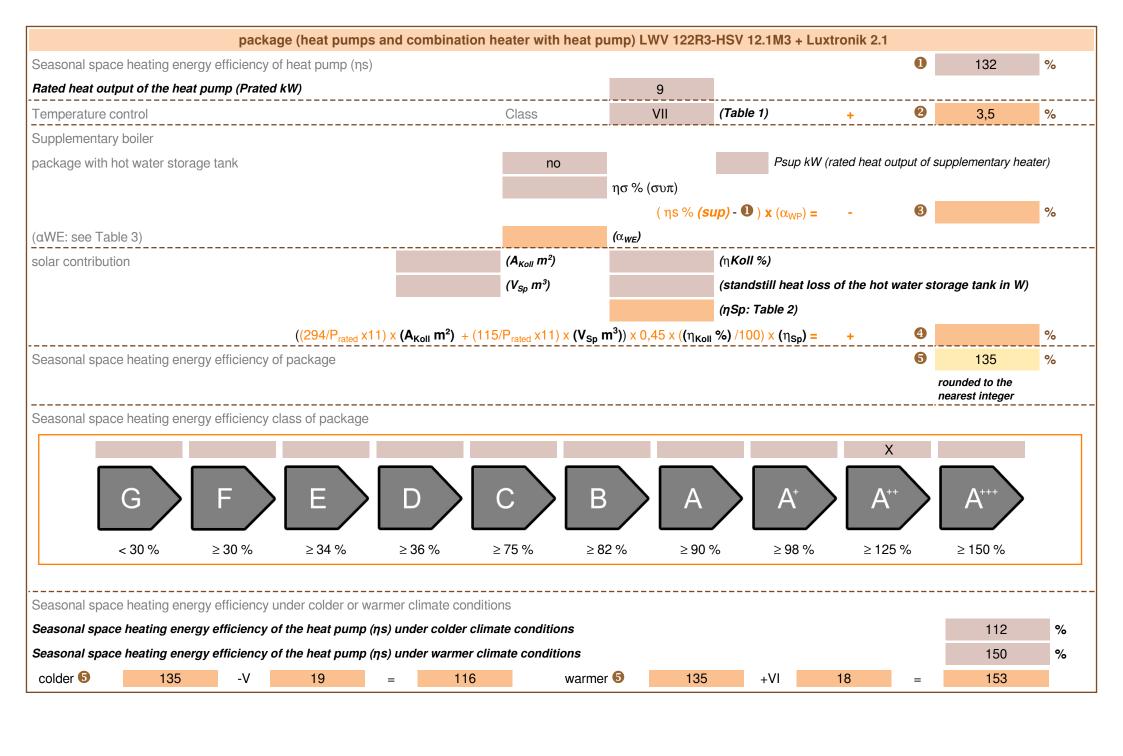
alpha innotec

LWV 122R3-HSV 12.1M3 + Luxtronik 2.1









heatpump datasheet:					
manufacturer:	alpha innotec				
model:	- '	LWV 122R3-HSV 12.1M3			
	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:	10	9	kW		
annual final energy consumption space heater	4681	5398	kWh		
annual electricity consumption waterheating	1767		kWh		
energy efficiency space heater:	174	132	%		
energy efficiency waterheating	95		%		
	•		•		
sound power level indoors		47	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).		
additional information	low	medium			
rated heat output colder climate	9	7	kW		
rated heat output warmer climate	7	7	kW		
annual energy consumption space heater colder climate	6290	5984	kWh		
annual energy consumption space heater warmer climate	1887	2268	kWh		
ann. Electricity consumption waterheating colder climate	1940		kWh		
ann. Electricity consumption waterheating warmer climate	1525		kWh		
energy effiency space heater colder climate	132	112	%		
energy effiency space heater warmer climate	181	150	%		
energy efficiency waterheating colder climate	86		%		
energy efficiency DHWwarmer climate	110		%		
	•				
sound power level outdoors		49	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	%

Model				LWV 122R3-HSV 12.1M3			
Air-to-water heat pump: (yes/no)				yes			
Brine-to-water heat pump: (yes/no)			no				
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	9	kW	Seasonal space heating energy efficiency	ηS	131,7	%
Declared coefficient of perfor temperature 20°C and outdoor			ndoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	8,3	kW	Tj = -7°C	COPd	2,18	-
Tj = +2°C	Pdh	4,8	kW	Tj = +2°C	COPd	3,28	-
Tj = +7°C	Pdh	5,2	kW	Tj = +7°C	COPd	4,54	-
Tj = +12°C	Pdh	6,0	kW	Tj = +12°C	COPd	6,15	-
Tj = bivalent temperature	Pdh	8,3	kW	Tj = bivalent temperature	COPd	2,18	-
Tj = operation limit temperature	Pdh	6,7	kW	Tj = operation limit temperature	COPd	1,94	-
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	active mod	e	Supplementary heater			<u>.</u>
Off mode	P _{OFF}	0,020	kW	Rated heat output	Psup	2,1	kW
Thermostat-off mode	P _{TO}	0,020	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,020	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.900	m ³ /h
sound power level, indoors/outdoors	L _{WA}	47 / 49	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	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}	95	%
Daily electricity consumption	Q_{elec}	8,341	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	ait deutsch	land GmbH In	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				LWV 122R3-HSV 12.1M3			
			yes				
Brine-to-water heat pump: (yes/no)			no				
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	10	kW	Seasonal space heating energy efficiency	ηS	173,5	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	8,5	kW	Tj = -7°C	COPd	2,60	-
Tj = +2°C	Pdh	5,3	kW	Tj = +2°C	COPd	4,52	-
Tj = +7°C	Pdh	6,3	kW	Tj = +7°C	COPd	6,04	-
Tj = +12°C	Pdh	6,7	kW	Tj = +12°C	COPd	7,34	-
Tj = bivalent temperature	Pdh	8,5	kW	Tj = bivalent temperature	COPd	2,60	-
Tj = operation limit temperature	Pdh	7,5	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	active mod	e	Supplementary heater			
Off mode	P _{OFF}	0,020	kW	Rated heat output	Psup	2,5	kW
Thermostat-off mode	P _{TO}	0,020	kW	Type of energy input		electrical	•
Standby mode	P_SB	0,020	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.900	m ³ /h
sound power level, indoors/outdoors	L _{WA}	47 / 49	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	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	<u> </u>	and GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany			
				the rated heat output Prated is equ equal to the supplementary capac			eating
		then the defa			.,oaiii	٠٠١/٠ الم	