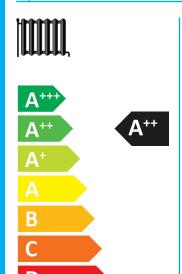
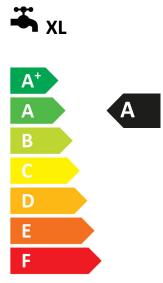


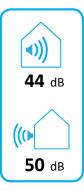
100776HSV12141

alpha innotec

LWAV 82R1/3-HSV 12.1M3











kW

2019

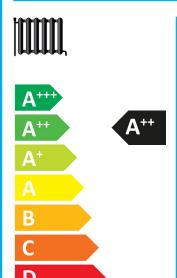
811/2013

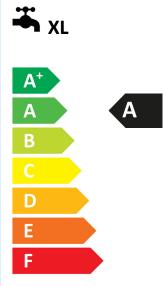


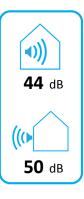
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alpha innotec

LWAV 82R1/3-HSV 12.1M3











5

kW

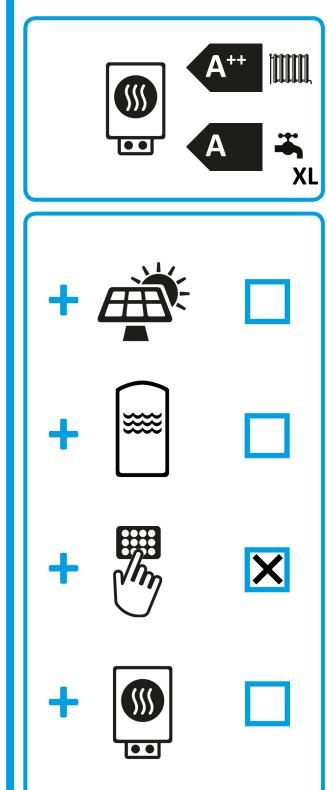


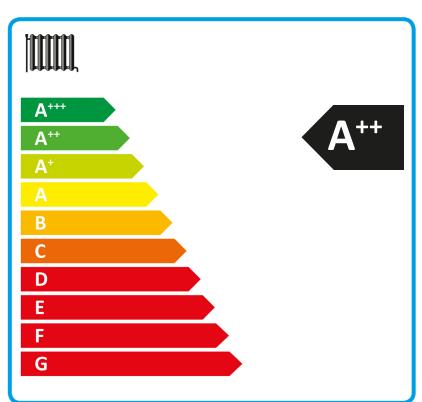
ENERG Y (JA) ehepγuя · ενεργεια (Ε) (ΙΑ)

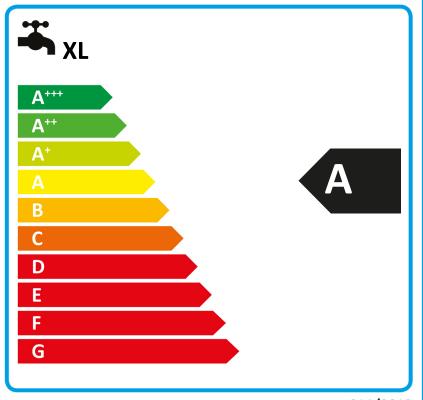
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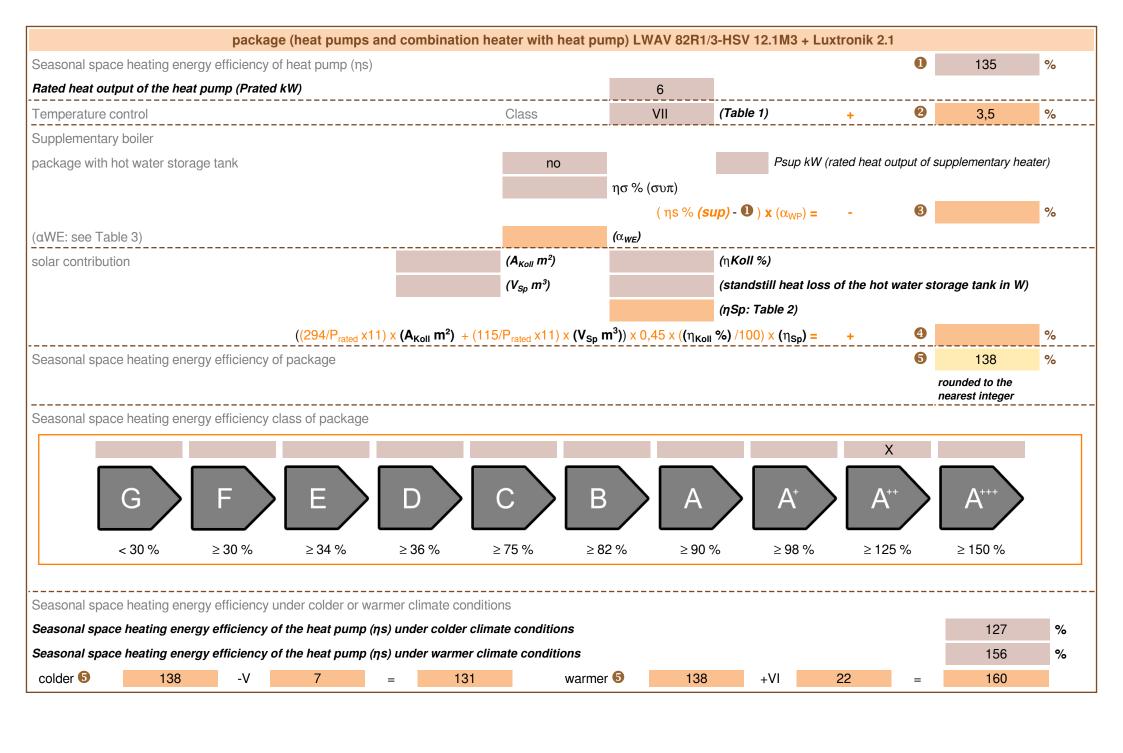
alpha innotec

LWAV 82R1/3-HSV 12.1M3 + Luxtronik 2.1









heatpump datasheet:				
manufacturer:	alpha innotec			
model:	LWAV 82R1/3-HSV 12.1M3			
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:	7	6	kW	
annual final energy consumption space heater	3029	3390	kWh	
annual electricity consumption waterheating	1417		kWh	
energy efficiency space heater:	180	135	%	
energy efficiency waterheating	118		%	
			•	
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 c	ompliance with local regulations	S.	
additional information	low	medium		
rated heat output colder climate	7	5	kW	
rated heat output warmer climate	4	6	kW	
annual energy consumption space heater colder climate	4339	3781	kWh	
annual energy consumption space heater warmer climate	1009	1844	kWh	
ann. Electricity consumption waterheating colder climate	1557		kWh	
ann. Electricity consumption waterheating warmer climate	1221		kWh	
energy effiency space heater colder climate	145	127	%	
energy effiency space heater warmer climate	214	156	%	
energy efficiency waterheating colder climate	108		%	
energy efficiency DHWwarmer climate	137		%	
	•			
sound power level outdoors		50	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	%	

Model			LWAV 82R1/3-HSV 12.1M3					
			yes					
Brine-to-water heat pump: (yes/no) Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no)			no	·				
			no no					
							Equipped with supplementary heater: (yes/no)	
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	134,7	%	
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor	
Tj = -7°C	Pdh	5,0	kW	Tj = -7°C	COPd	2,31	-	
Tj = +2°C	Pdh	3,5	kW	Tj = +2°C	COPd	3,43	-	
Tj = +7°C	Pdh	3,0	kW	Tj = +7°C	COPd	4,86	-	
Tj = +12°C	Pdh	3,4	kW	Tj = +12°C	COPd	6,56	-	
Tj = bivalent temperature	Pdh	5,0	kW	Tj = bivalent temperature	COPd	2,31	-	
Tj = operation limit temperature	Pdh	4,2	kW	Tj = operation limit temperature	COPd	2,12	-	
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}	0,031	kW	Rated heat output	Psup	1,4	kW	
Thermostat-off mode	P _{TO}	-	kW	Type of energy input		electrical	•	
Standby mode	P_SB	0,031	kW					
Crankcase heater mode	P _{CK}	-	kW					
Other items	•				•			
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.500	m³/h	
sound power level, indoors/outdoors	L _{WA}	44 / 50	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}	118	%	
Daily electricity consumption	Q _{elec}	6,762	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details		and 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 n						-		

Model			LWAV 82R1/3-HSV 12.1M3					
			yes					
Brine-to-water heat pump: (yes/no) Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no)			no	·				
			no no					
							Equipped with supplementary heater: (yes/no)	
combination heater with: (yes/no)			yes	yes				
application: (low/medium)				low				
climate: (colder/average/warmer)			average				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	7	kW	Seasonal space heating energy efficiency	ηS	179,8	%	
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor	
Tj = -7°C	Pdh	5,9	kW	Tj = -7°C	COPd	3,26	-	
Tj = +2°C	Pdh	3,8	kW	Tj = +2°C	COPd	4,70	-	
Tj = +7°C	Pdh	3,3	kW	Tj = +7°C	COPd	5,97	-	
Tj = +12°C	Pdh	3,4	kW	Tj = +12°C	COPd	7,92	-	
Tj = bivalent temperature	Pdh	5,9	kW	Tj = bivalent temperature	COPd	3,26	-	
Tj = operation limit temperature	Pdh	5,1	kW	Tj = operation limit temperature	COPd	3,18	-	
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	le	Supplementary heater				
Off mode	P _{OFF}	0,031	kW	Rated heat output	Psup	1,6	kW	
Thermostat-off mode	P _{TO}	-	kW	Type of energy input		electrical	•	
Standby mode	P_SB	0,031	kW					
Crankcase heater mode	P _{CK}	-	kW					
Other items					•			
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.500	m³/h	
sound power level, indoors/outdoors	L _{WA}	44 / 50	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	 	and GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany			•	
				the rated heat output Prated is equ equal to the supplementary capac			eating	
-				tion coefficient is Cdh = 0,9.				