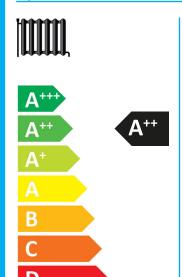


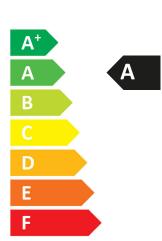
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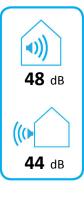
alpha innotec

LWV 82R1/3-HSV 12.1M3

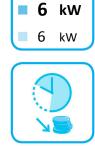
XL XL











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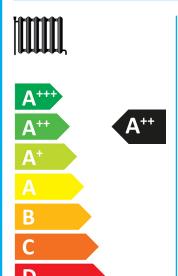
kW

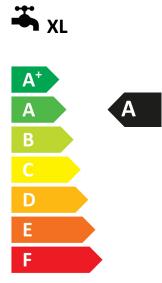


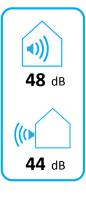
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alpha innotec

LWV 82R1/3-HSV 12.1M3











5

kW

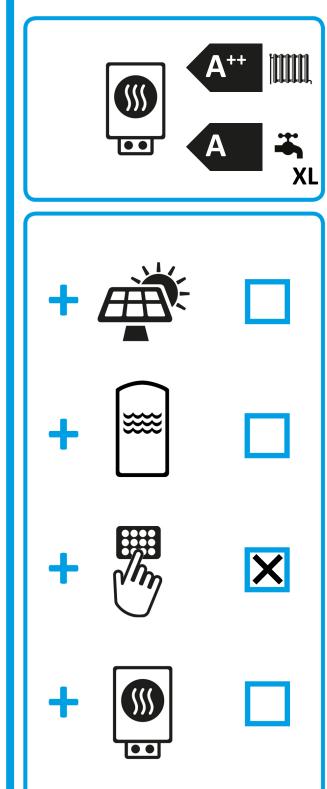


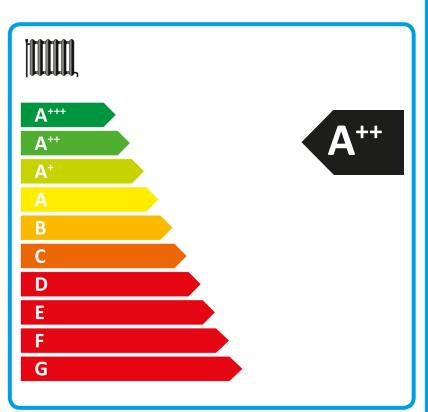
## ENERG Υ (JA) EHEPΓИЯ · ενεργεια (Ε) (ΙΑ)

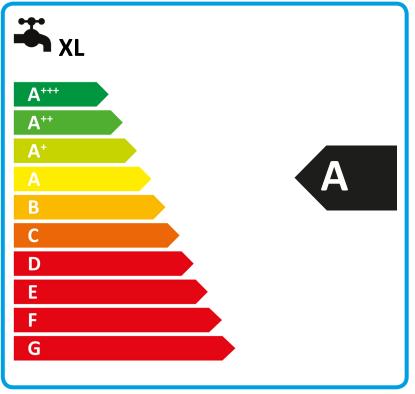
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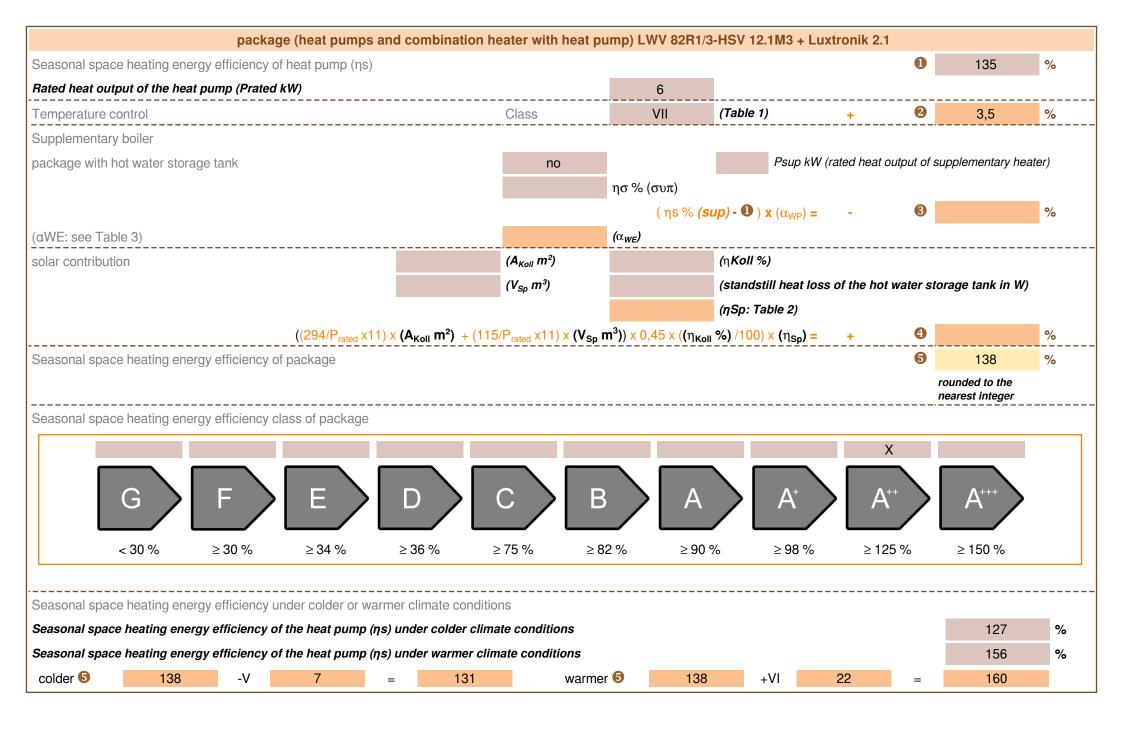
alpha innotec

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









heatpump datasheet:					
manufacturer:	alpha innotec				
model:		LWV 82R1/3-HSV 12.1M3			
Information concerning energy efficiency class and rated	heat output:				
load profile water heating	XL				
	<u> </u>				
	average / low	average / medium			
energy efficiency class space heater:	A+++	A++	-		
energy efficiency class waterheating		Ā	-		
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		48	dB		
special precautions concerning assembly, installation or r	maintenance				
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		44	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 82R1/3-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	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			ndoor
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 <sub>biv</sub>	-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 <sub>OFF</sub>	0,031	kW	Rated heat output	Psup	1,4	kW
Thermostat-off mode	P <sub>TO</sub>	-	kW	Type of energy input		electrical	•
Standby mode	P <sub>SB</sub>	0,031	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	-	2.500	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	48 / 44	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh				
For heat pump combination h	eater:						
Declared load profile		XL		Water heating energy efficiency	$\eta_{wh}$	118	%
Daily electricity consumption	Q <sub>elec</sub>	6,762	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				LWV 82R1/3-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)			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 <sub>biv</sub>	-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 <sub>OFF</sub>	0,031	kW	Rated heat output	Psup	1,6	kW
Thermostat-off mode	P <sub>TO</sub>	-	kW	Type of energy input		electrical	
Standby mode	$P_{SB}$	0,031	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	-	2.500	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	48 / 44	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	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	ait deutsch	land GmbH Ir	dustriestr. 3	95359 Kasendorf Germany	<u>-                                      </u>		
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m	easuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.			