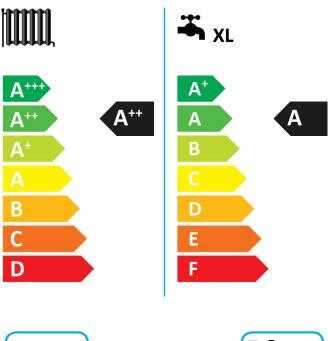


alpha innotec

ЕNERG У ША енергия · ενεργεια (Ε) (А)

100772HSV1241 LWV 82R1/3-HSV 12M3



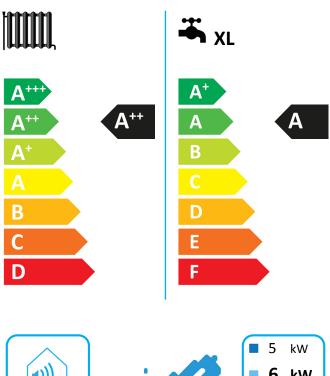


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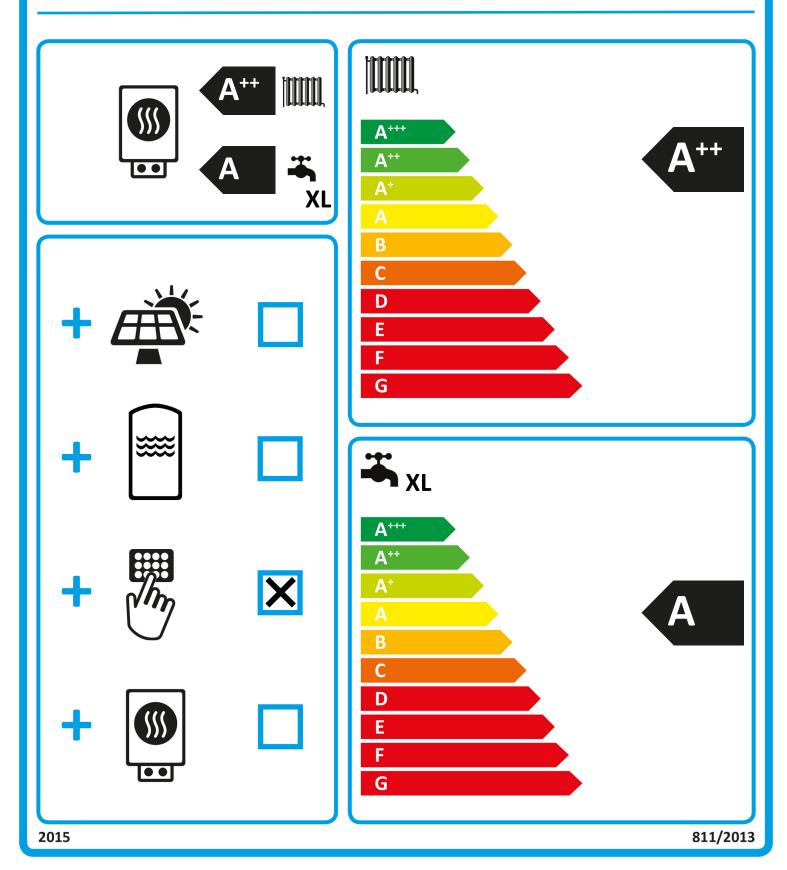


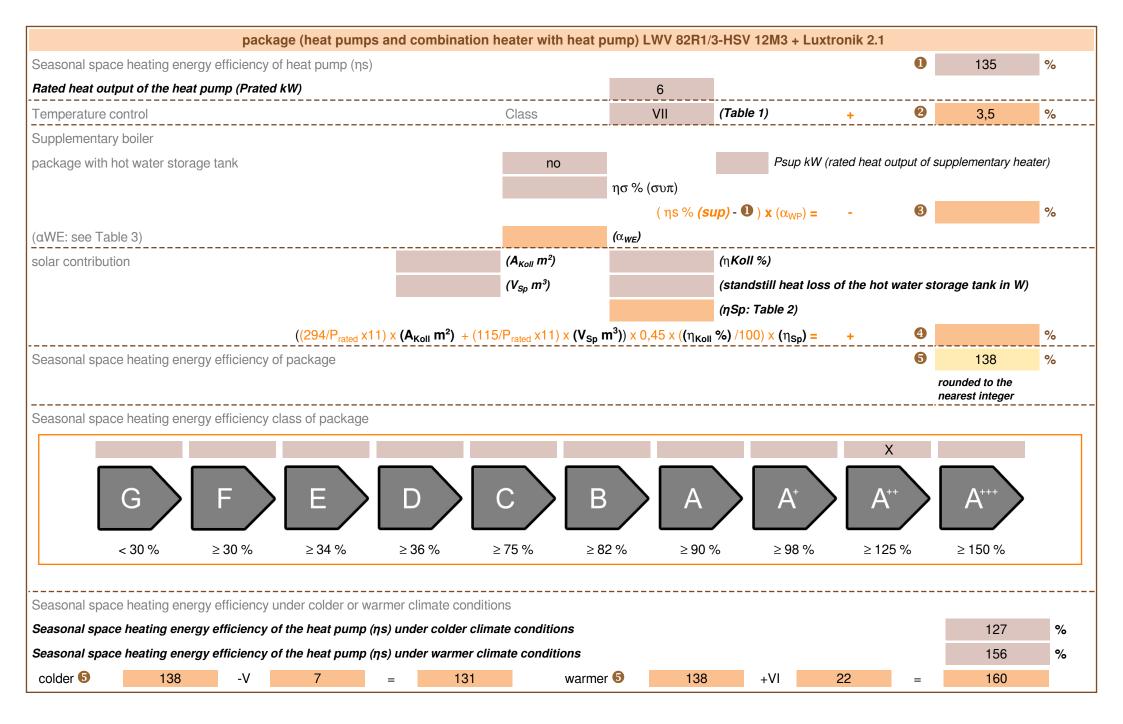


100772HSV1241

alpha innotec

LWV 82R1/3-HSV 12M3 + Luxtronik 2.1





manufacturer:	alpha innotec					
model:	LWV 82R1/3-HSV 12M	-				
Information concerning energy efficiency class and rated	heat output:					
load profile water heating	XL		-			
			1			
	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	1948		kWh			
energy efficiency space heater:	180	135	%			
energy efficiency waterheating	86		%			
			1			
sound power level indoors		48	dB			
		48				
		48				
sound power level indoors	maintenance		dB			
sound power level indoors special precautions concerning assembly, installation or i	maintenance		dB			
sound power level indoors special precautions concerning assembly, installation or i	maintenance		dB			
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q additional information	maintenance ualified specialist personnel in c	ompliance with local regulations	dB			
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q additional information rated heat output colder climate	maintenance ualified specialist personnel in c	ompliance with local regulations medium	dB			
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate	maintenance ualified specialist personnel in c low 7	ompliance with local regulations medium 5	dB			
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q	maintenance ualified specialist personnel in c low 7 4	ompliance with local regulations medium 5 6	dB			
sound power level indoors special precautions concerning assembly, installation or i All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate	maintenance ualified specialist personnel in c low 7 4 4339	ompliance with local regulations medium 5 6 3781	dB			
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate annual energy consumption space heater warmer climate annual energy consumption waterheating colder climate	maintenance ualified specialist personnel in c low 7 4 4339 1009	mpliance with local regulations medium 5 6 3781 1844	dB			
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate annual energy consumption waterheating colder climate ann. Electricity consumption waterheating warmer climate	maintenance ualified specialist personnel in c low 7 4 4339 1009 2148	ompliance with local regulations medium 5 6 3781	dB			
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate ann. Electricity consumption waterheating colder climate energy effiency space heater colder climate energy effiency space heater warmer climate	maintenance ualified specialist personnel in c low 7 4 4339 1009 2148 1692	mpliance with local regulations medium 5 6 3781 1844	dB			
sound power level indoors special precautions concerning assembly, installation or in All instructional work in this manual may only be carried out by q additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate	maintenance ualified specialist personnel in c low 7 4 4339 1009 2148 1692 145	ompliance with local regulations medium 5 6 3781 1844	kW kW kWh kWh kWh kWh			

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					LWV 82R1/3-HSV 12M3			
Air-to-water heat pump: (yes/no)				yes				
Brine-to-water heat pump: (yes/no)				no				
Water-to-water heat pump: (yes/no)								
Low-temperature heat pump: (yes/no)				no				
ater: (yes/nc)	yes						
)		yes						
		medium						
)		average						
Symbol	Value	Unit	Item	Symbol	Value	Unit		
Prated	6	kW	Seasonal space heating energy efficiency	ηS	134,7	%		
		indoor				ndoor		
Pdh	5,0	kW	Tj = -7°C	COPd	2,31	-		
Pdh	3,5	kW	Tj = +2°C	COPd	3,43	-		
Pdh	3,0	kW	Tj = +7°C	COPd	4,86	-		
Pdh	3,4	kW	Tj = +12°C	COPd	6,56	-		
Pdh	5,0	kW	Tj = bivalent temperature	COPd	2,31	-		
Pdh	4,2	kW	Tj = operation limit temperature	COPd	2,12	-		
Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-		
T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C		
Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Cdh	1,0	-	Heating water operating limit temperature	WTOL	60	°C		
other thar	active mod	e	Supplementary heater					
P _{OFF}	0,031	kW	Rated heat output	Psup	1,4	kW		
	-	kW	Type of energy input					
P _{SB}	0,031	kW	1					
 	-	kW	1					
I		<u> </u>	1					
variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.500	m³/h		
L _{WA}	48 / 44	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h		
NO _X	-	mg/kWh	·	. I		-		
eater:								
	XL		Water heating energy efficiency	η_{wh}	86	%		
Q _{elec}	8,870	kWh	Daily fuel consumption	Qfuel	-	kWh		
1				<u> </u>				
and heat pu	mp combinati	ion heaters, t	the rated heat output Prated is equ			eating		
	-			-				
	no) s/no) ater: (yes/nd) ater: (yes/nd) Symbol Prated Prated Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pd	no) s/no) ater: (yes/no) Symbol Value Prated 6 mance for part load at in r temperature Tj Pdh 5,0 Pdh 3,5 Pdh 3,0 Pdh 3,4 Pdh 5,0 Pdh 3,4 Pdh 5,0 Pdh 4,2 Pdh 4,2 Pdh Tbiv -7 Pdh 4,2 Pdh Tbiv -7 Pcych Cdh 1,0 sother than active mod P _{OFF} 0,031 P _{TO} - P _{SB} 0,031 P _{TO} - P _{SB} 0,031 P _{CK} - Variable L _{WA} 48 / 44 NO _X - eater: XL Q _{elec} 8,870 ait deutschland GmbH Ir and heat pump combination port a supplementary here	no) s/no) ater: (yes/no) ater: (yes/no) Symbol Value Unit Prated 6 kW mance for part load at indoor or temperature Tj Pdh 5,0 kW Pdh 5,0 kW Pdh 3,5 kW Pdh 3,0 kW Pdh 3,1 kW Pdh 3,4 kW Pdh 4,2 kW Pdh 4,2 kW Pdh 4,2 kW Pdh 4,2 kW Pdh -7 °C Pdh 3,0 kW Pdh -7 °C Pcych - kW Q Q Q Q Tbiv -7 °C kW Q Q Q Q Q Q Pcych - kW Q	no no s/no) no skino) no ater: (yes/no) yes yes medium average sverage Symbol Value Unit Prated 6 kW Seasonal space heating energy efficiency medium mance for part load at indoor or temperature Tj Declared coefficient of perfor temperature 20°C and outdoc Pdh 5,0 kW Tj = -7°C Pdh 3,5 kW Tj = +7°C Pdh 3,5 kW Tj = +12°C Pdh 3,4 kW Tj = +12°C Pdh 3,4 kW Tj = operation limit temperature Pdh 5,0 kW Tj = operation limit temperature Pdh -7 °C For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	no no s/no) no s/no) no ater: (yes/no) yes yes medium average sverage Symbol Value Unit Item Prated 6 kW Seasonal space heating energy efficiency nS mance for part load at indoor retemperature Tj Declared coefficient of performance for retemperature Ti Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 20°C and the 20°C an	no no s/no) no s/no) no ater: (yes/no) yes o average Symbol Value Unit Item Symbol Value Prated 6 kW Seasonal space heating energy efficiency η S 134,7 mance for part load at indoor Declared coefficient of performance for part load at itemperature 0° C and outdoor temperature Tj Pdh 5,0 kW Tj = -7°C COPd 2,31 Pdh 3,0 kW Tj = +2°C COPd 4,36 Pdh 3,0 kW Tj = +12°C COPd 4,36 Pdh 3,4 kW Tj = operation limit temperature COPd 2,31 Pdh 5,0 kW Tj = operation limit temperature COPd 2,31 Pdh - KW Tj = operation limit temperature COPd 2,12 Pdh - KW Cycling interval efficiency COPd - - Tbov -7 °C For air-to-water heat pumps: ToL -10 <td< td=""></td<>		

Model				LWV 82R1/3-HSV 12M3			
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 he	ater: (yes/no	o)	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 outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
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	n active mod	e	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	1
Standby mode	P _{SB}	0,031	kW				
Crankcase heater mode	Рск	-	kW	-			
Other items				1			
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}	48 / 44	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		<u> </u>		-
For heat pump combination h							
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		95359 Kasendorf Germany			•
(*) For heat pump space heaters	and heat pu	Imp combinat	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m			-			- · · <i>J</i> /	