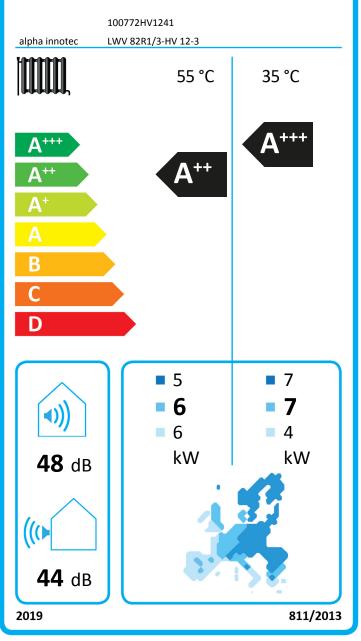
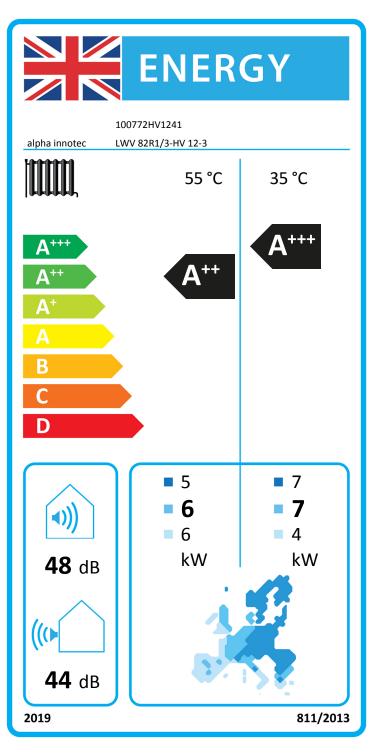


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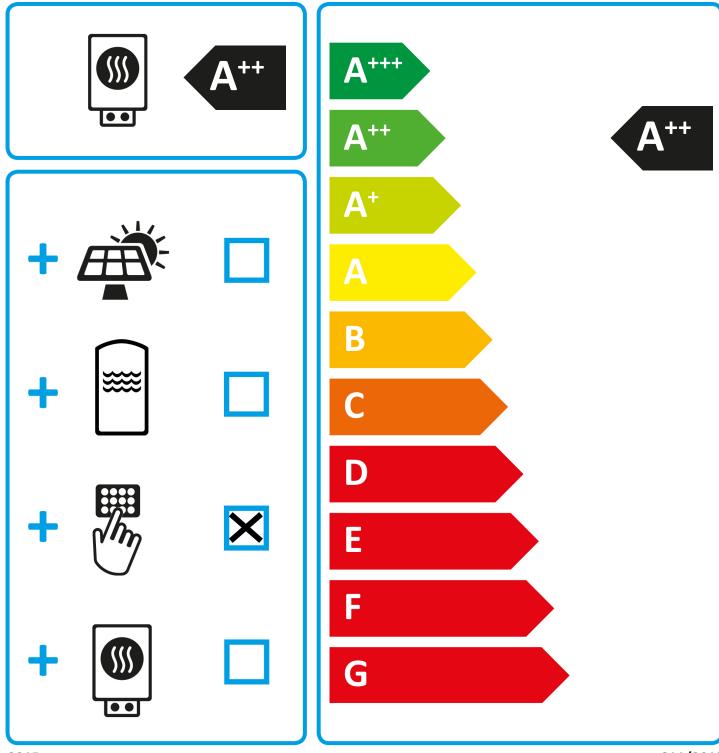


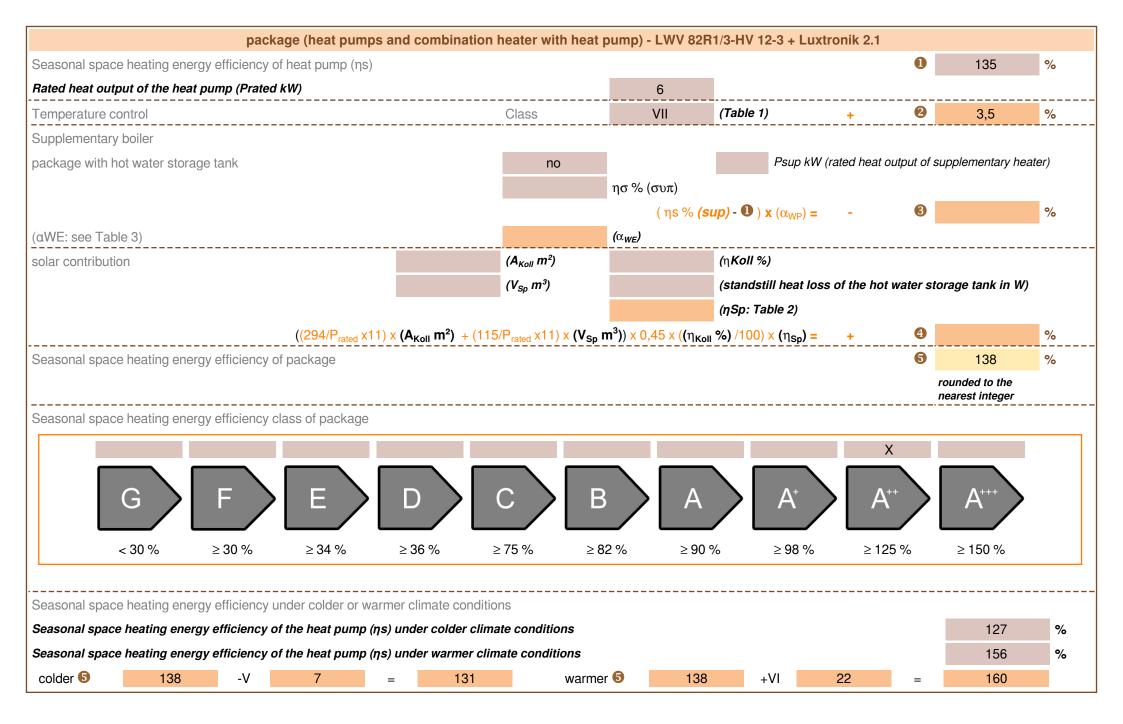


100772HV1241

alpha innotec

LWV 82R1/3-HV 12-3 + Luxtronik 2.1





heatpump datasheet:	
manufacturer:	alpha innotec
model:	LWV 82R1/3-HV 12-3
	- ·

Information concerning energy efficiency class and rated heat output:

	average / low	average / medium	
energy efficiency class space heater:	A+++	A++	-
rated heat output:	7	6	kW
energy efficiency space heater:	180	135	%
annual final energy consumption space heater	3029	3390	kWh

48

dB

sound power level indoors

special precautions concerning assembly, installation or maintenance

All instructional work in this manual may only be carried out by qualified specialist personnel in compliance with local regulations.

additional information	low	medium	
rated heat output colder climate	7	5	kW
rated heat output warmer climate	4	6	kW
energy effiency space heater colder climate	145	127	%
energy effiency space heater warmer climate	214	156	%
annual energy consumption space heater colder climate	4339	3781	kWh
annual energy consumption space heater warmer climate	1009	1844	kWh
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 energy efficiency space heater	3,5	%			

Model				LWV 82R1/3-HV 12-3			
Air-to-water heat pump: (yes/no)			ves				
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)			no				
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 performance for part load at indoor temperature 20°C and outdoor temperature Tj				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 that	n 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	Р _{ск}	-	kW	7			
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}	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		-		-
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		land GmbH Ir	Idustriestr. 3	95359 Kasendorf Germany			
	and heat pu	Imp combinati	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m		-					

Model				LWV 82R1/3-HV 12-3			
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: (ye	s/no)			no			
Equipped with supplementary heater: (yes/no)				yes			
combination heater with: (yes/no)				no			
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 performance for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of perfor temperature 20°C and outdoo			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 that	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	m ³ /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	•	-		-
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 combinati	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> /	