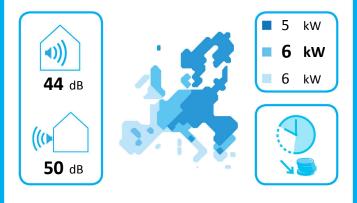


alpha innotec

ЕNERG У ША енергия · ενεργεια (Ε) (А)

100776HSV941 LWAV 82R1/3-HSV 9M1/3

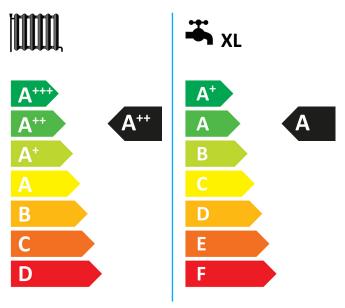




100776HSV941

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LWAV 82R1/3-HSV 9M1/3





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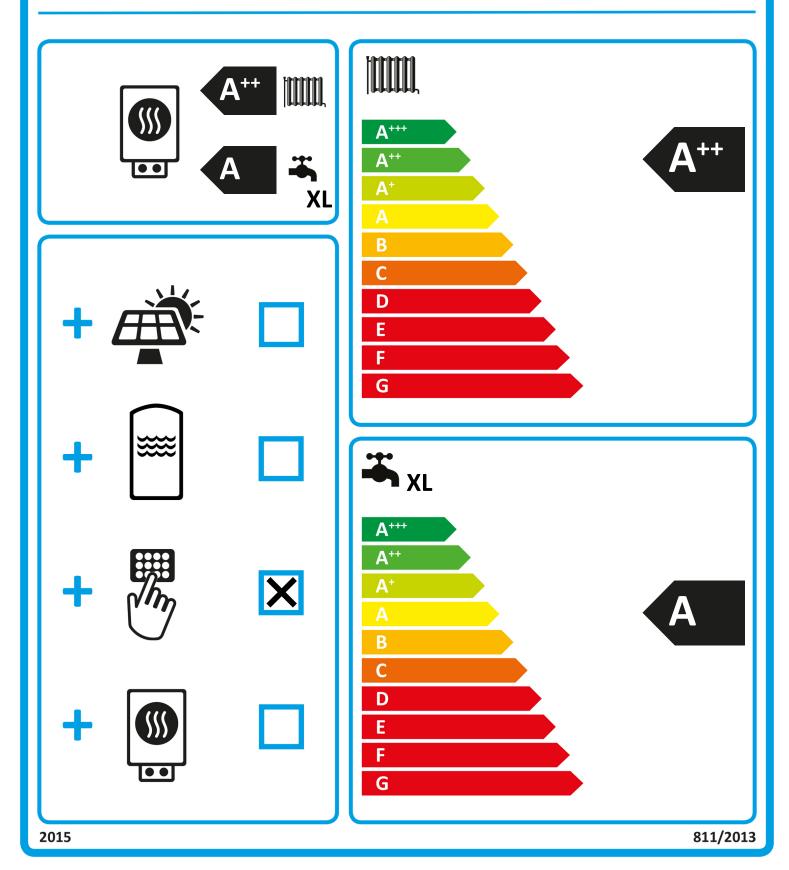


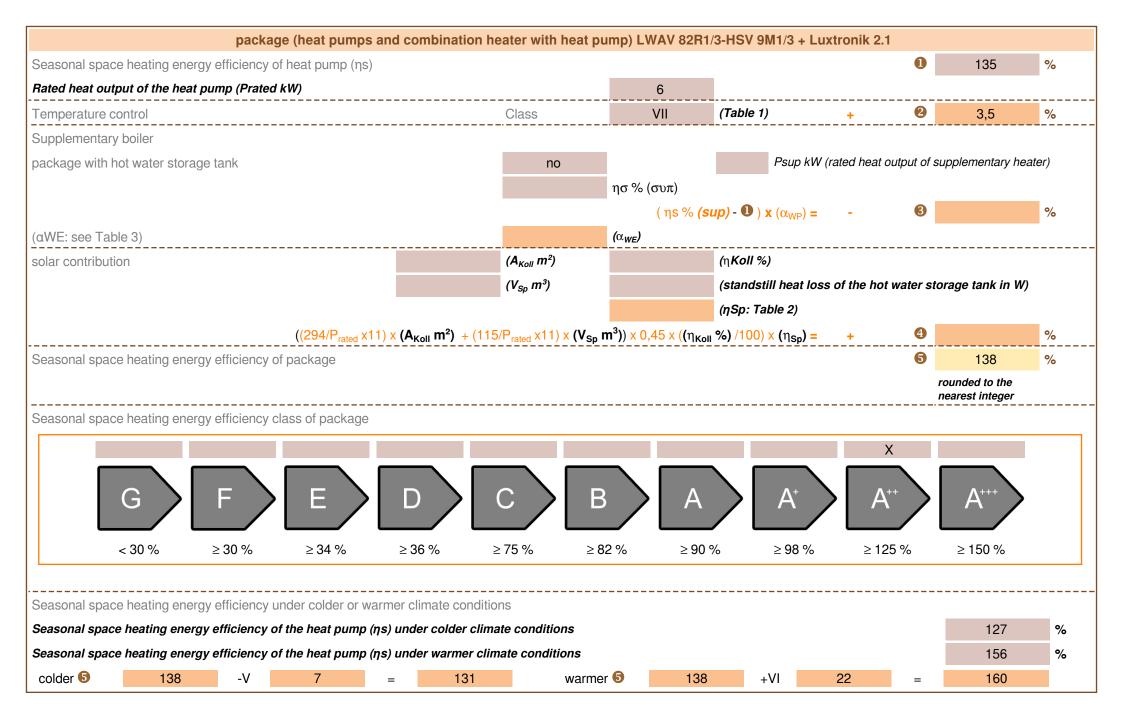


100776HSV941

alpha innotec

LWAV 82R1/3-HSV 9M1/3 + Luxtronik 2.1





manufacturer:	alpha innotec					
model:	LWAV 82R1/3-HSV 9M	LWAV 82R1/3-HSV 9M1/3				
Information concerning energy efficiency class and rate						
load profile water heating	XL	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	1948		kWh			
energy efficiency space heater:	180	135	%			
	100					
energy efficiency waterheating	86	44	% dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o	86 r maintenance		dB			
energy efficiency waterheating sound power level indoors	86 r maintenance		dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o	86 r maintenance		dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by	86 r maintenance qualified specialist personnel in c	ompliance with local regulations	dB			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by additional information	r maintenance qualified specialist personnel in c low	ompliance with local regulations medium	dB 3.			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by additional information rated heat output colder climate	r maintenance qualified specialist personnel in c low 7	ompliance with local regulations medium 5	dB s. kW			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by additional information rated heat output colder climate rated heat output warmer climate	r maintenance qualified specialist personnel in c low 7 4	ompliance with local regulations medium 5 6	dB 3. kW kW			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate	r maintenance qualified specialist personnel in c low 7 4 4339	ompliance with local regulations medium 5 6 3781	dB 5. kW kW kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by 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	86 r maintenance qualified specialist personnel in c low 7 4 4339 1009	ompliance with local regulations medium 5 6 3781	dB 3. kW kW kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by 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	r maintenance qualified specialist personnel in c low 7 4 4339 1009 2148	ompliance with local regulations medium 5 6 3781	dB s. kW kWh kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by additional information rated heat output colder climate rated heat output colder climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate annual energy consumption space heater warmer climate ann. Electricity consumption waterheating colder climate	r maintenance qualified specialist personnel in c low 7 4 4 4339 1009 2148 1692	ompliance with local regulations medium 5 6 3781 1844	dB s. kW kW kWh kWh kWh			
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation o All instructional work in this manual may only be carried out by 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 ann. Electricity consumption waterheating warmer climate energy effiency space heater colder climate	r maintenance qualified specialist personnel in c low 7 4 4339 1009 2148 1692 145	ompliance with local regulations medium 5 6 3781 1844	dB dB s. kW kW kWh 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					LWAV 82R1/3-HSV 9M1/3			
Air-to-water heat pump: (yes/no)								
ю)		no						
no)		no						
s/no)		no						
ater: (yes/no)	yes						
)		yes						
		medium						
climate: (colder/average/warmer)								
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 than	n active mod	le	Supplementary heater			-		
P _{OFF}	0,031	kW	Rated heat output	Psup	1,4	kW		
	-	kW	Type of energy input		electrical			
P _{SB}	0,031	kW	-					
Рск	-	kW	-					
•		•						
variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.500	m³/h		
L _{WA}	44 / 50	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h		
NO _X	-	mg/kWh	•					
		-						
	XL		Water heating energy efficiency	η_{wh}	86	%		
Q _{elec}	8,870	kWh	Daily fuel consumption	Qfuel	-	kWh		
		ndustriestr. 3	,					
and heat pu	mp combinat	ion heaters,	the rated heat output Prated is equ			eating		
· · · · · · · · · · · · · · · · · · ·	· · · · · ·	1	· · · · · · · · · · · · · · · · · · ·	,				
	no) no) no) es/no) eater: (yes/no) eater: (yes/no) pater: (yes/no) Pater: (yes/no) Prated Prated Prated Pdh PoFF PoFS PcK NOx eater: Qelec ait deutsch	no) no) pater: (yes/no) pater: xL Qelec 8,870 ait deutsch and GmbH In	no) no) sater: (yes/no) sater: (yes/no) y Symbol Value Unit Prated 6 kW Prated 6 kW Pdh 5,0 kW Pdh 3,5 kW Pdh 3,6 kW Pdh 3,7 kW Pdh 3,6 kW Pdh 3,6 kW Pdh 3,7 kW Pdh 3,1 kW Pdh 4,2 kW Pdh 3,4 kW Pdh 3,4 kW Pdh 3,0 kW Pdh 3,1 kW Pck 0,031 kW Pck - kW Pck - kW	yesnonononononononononononoyesmediumaverageSymbolValueUnitItemPrated6kWSeasonal space heating energy efficiencymance for part load at indoor for temperature TjDeclared coefficient of perfor temperature 20°C and outdoor of temperature TjDeclared coefficient of perfor temperature 20°C and outdoorPdh5,0kWTj = +7°CPdh3,4kWTj = +7°CPdh3,4kWTj = +12°CPdh3,4kWTj = operation limit temperaturePdh-kWFor air-to-water heat pumps: Tj = -15°C (If TOL < -20°C)T_bW-7°CFor air-to-water heat pumps: Operation limit temperaturePcych-kWCycling interval efficiencyPoFF0,031kWRated heat outputP_{GK}-kWRated heat outputP_{CK}-kWFor air-to-water heat pumps: Rated air flow rate, outdoorsLwa44 / 50dBFor water-brine-to-water heat pumps: Rated air flow rate, outdoorsLwaXLWater heating energy efficiencyNOx-mg/kWh <tr< td=""><td>yes no no no no no s(no) no no no s(no) no no no s(no) yes no no state: (yes/no) yes no average Symbol Symbol Value Unit Item Symbol Prated 6 kW Seasonal space heating energy efficiency ηS mance for part load at indoor or temperature 20°C and outdor temperature for por temperature 20°C and outdor temperature for por temperature 10 Declared coefficient of performance for por temperature 10 Pdh 3,0 kW Tj = +2°C COPd Pdh 3,4 KW Tj = aperation limit temperature COPd Pdh 3,4 KW Tj = operation limit temperature COPd Pdh 3,4 KW For air-to-water heat pumps: Tj COPd Pdh - kW For air-to-water heat pumps: TOL Operation limit temperature OPd Pdh - KW<!--</td--><td>yes no no no no no no symbol yes) yes medium average Symbol Value Unit teme medium average Symbol Value Unit teme of part load at indoor preater for part load at indoor Declared coefficient of performance for part load at indoor preation limit temperature 20°C and outdoor temperature T j Declared coefficient of performance for part load at indoor preation limit temperature COPd 2,31 Pdh 3,4 KW Timerature T j Declared coefficient of performance for part load at informatic temperature T j Pdh 3,5 KW Timerature T j Pdh 3,6 COPd <th col<="" td=""></th></td></td></tr<>	yes no no no no no s(no) no no no s(no) no no no s(no) yes no no state: (yes/no) yes no average Symbol Symbol Value Unit Item Symbol Prated 6 kW Seasonal space heating energy efficiency η S mance for part load at indoor or temperature 20°C and outdor temperature for por temperature 20°C and outdor temperature for por temperature 10 Declared coefficient of performance for por temperature 10 Pdh 3,0 kW Tj = +2°C COPd Pdh 3,4 KW Tj = aperation limit temperature COPd Pdh 3,4 KW Tj = operation limit temperature COPd Pdh 3,4 KW For air-to-water heat pumps: Tj COPd Pdh - kW For air-to-water heat pumps: TOL Operation limit temperature OPd Pdh - KW </td <td>yes no no no no no no symbol yes) yes medium average Symbol Value Unit teme medium average Symbol Value Unit teme of part load at indoor preater for part load at indoor Declared coefficient of performance for part load at indoor preation limit temperature 20°C and outdoor temperature T j Declared coefficient of performance for part load at indoor preation limit temperature COPd 2,31 Pdh 3,4 KW Timerature T j Declared coefficient of performance for part load at informatic temperature T j Pdh 3,5 KW Timerature T j Pdh 3,6 COPd <th col<="" td=""></th></td>	yes no no no no no no symbol yes) yes medium average Symbol Value Unit teme medium average Symbol Value Unit teme of part load at indoor preater for part load at indoor Declared coefficient of performance for part load at indoor preation limit temperature 20°C and outdoor temperature T j Declared coefficient of performance for part load at indoor preation limit temperature COPd 2,31 Pdh 3,4 KW Timerature T j Declared coefficient of performance for part load at informatic temperature T j Pdh 3,5 KW Timerature T j Pdh 3,6 COPd <th col<="" td=""></th>		

Model		LWAV 82R1/3-HSV 9M1/3					
Air-to-water heat pump: (yes/no)		yes					
Brine-to-water heat pump: (yes/no)				no			
Water-to-water heat pump: (yes/i	no)		no				
Low-temperature heat pump: (ye	s/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 outdoo			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 that	n 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	Р _{ск}	-	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							
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			1
Pdesignh, and the rated heat out	put of a sup	plementary he	eater Psup is	the rated heat output Prated is equ equal to the supplementary capac			eating
Pdesignh, and the rated heat out (**) If Cdh is not determined by m			-		ity for heatin	ng sup(Tj).	