

100776WR2141

alpha innotec

LWAV 82R1/3-WR 2.1-1/3



55 °C

35 °C



**^++** 

 $A^+$ 

Α

В

L

A++

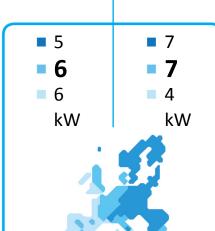




dB



**50** dB



2019

811/2013



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LWAV 82R1/3-WR 2.1-1/3



55 °C

35 °C



Λ++

Δ+

Δ

В

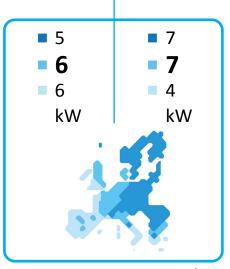
L

A<sup>++</sup>









2019

811/2013



## ENERG Y UA ehepγua · ενεργεια (Ε) (Α)

100776WR2141

alpha innotec

LWAV 82R1/3-WR 2.1-1/3 + Luxtronik 2.1























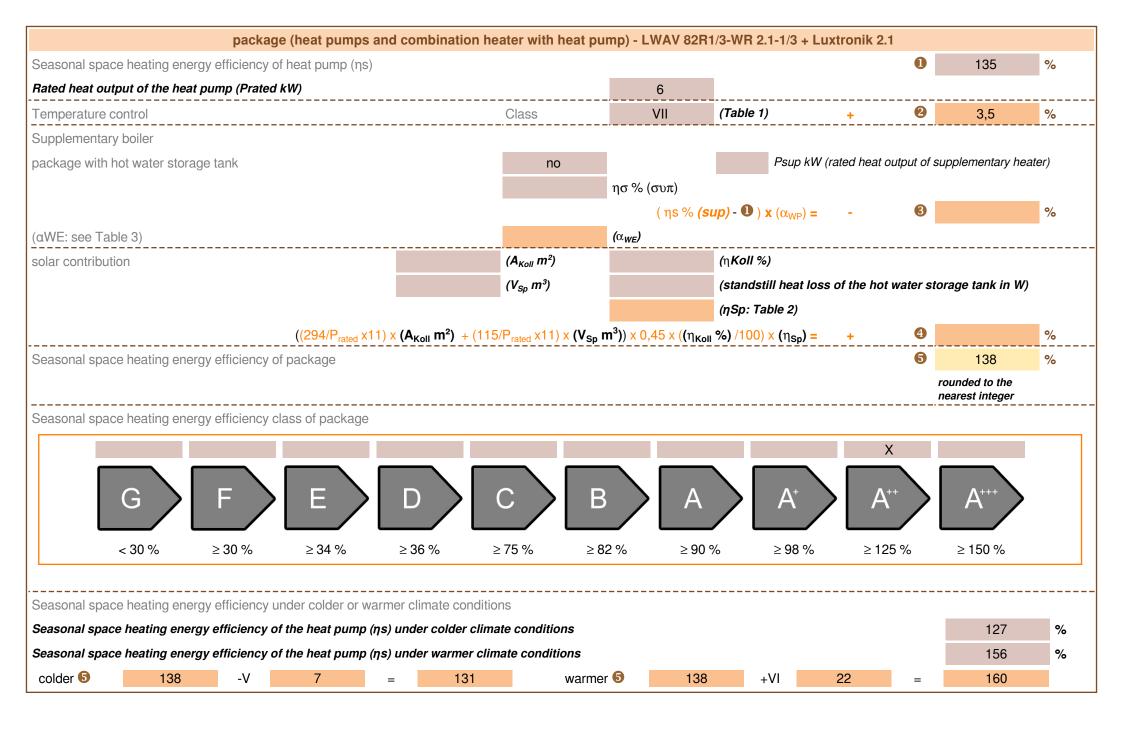








2015



heatpump datasheet:			
manufacturer:	alpha innotec		
model:	LWAV 82R1/3-WR 2.1	-1/3	
Information concerning energy efficiency class and ra	ted 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
sound power level indoors		-	dB
			•
special precautions concerning assembly, installation	or maintenance		
All instructional work in this manual may only be carried out be regulations.	y quaimed specialist persor	mer in compliance with loca	<b>1</b>
additional information	lew.	diver	1
	low	medium	1-14/
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		50	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			LWAV 82R1/3-WR 2.1-1/3				
			yes				
Brine-to-water heat pump: (yes/no)			no				
Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no) Equipped with supplementary heater: (yes/no)			no				
			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 perfor temperature 20°C and outdoo			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 <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	le	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	$P_{SB}$	0,031	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
Other items					1		
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>	- / 50	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	<del></del>	and GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany	1		
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by n					,	0 1- ( - 1) -	

Model			LWAV 82R1/3-WR 2.1-1/3				
			yes				
Brine-to-water heat pump: (yes/no)			no				
Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no) Equipped with supplementary heater: (yes/no)			no 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 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	le	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>	- / 50	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	<del>                                     </del>	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.	•	<u> </u>	