

100779WR2141

alpha innotec LWAV+ 122R3-WR 2.1-1/3

55 °C

35 °C

A+++

Δ++

A⁺

A

_

D



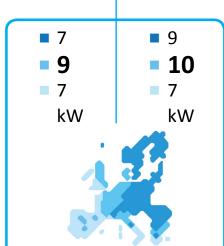




- dB



51 dB



2019

811/2013



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alpha innotec

LWAV+ 122R3-WR 2.1-1/3



55 °C

35 °C



Λ ++

A⁺

Δ

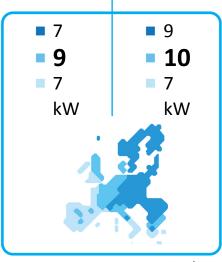
В

C









2019

811/2013



ENERG IJA енергия · ενεργεια

100779WR2141

alpha innotec

LWAV+ 122R3-WR 2.1-1/3 + Luxtronik 2.1



































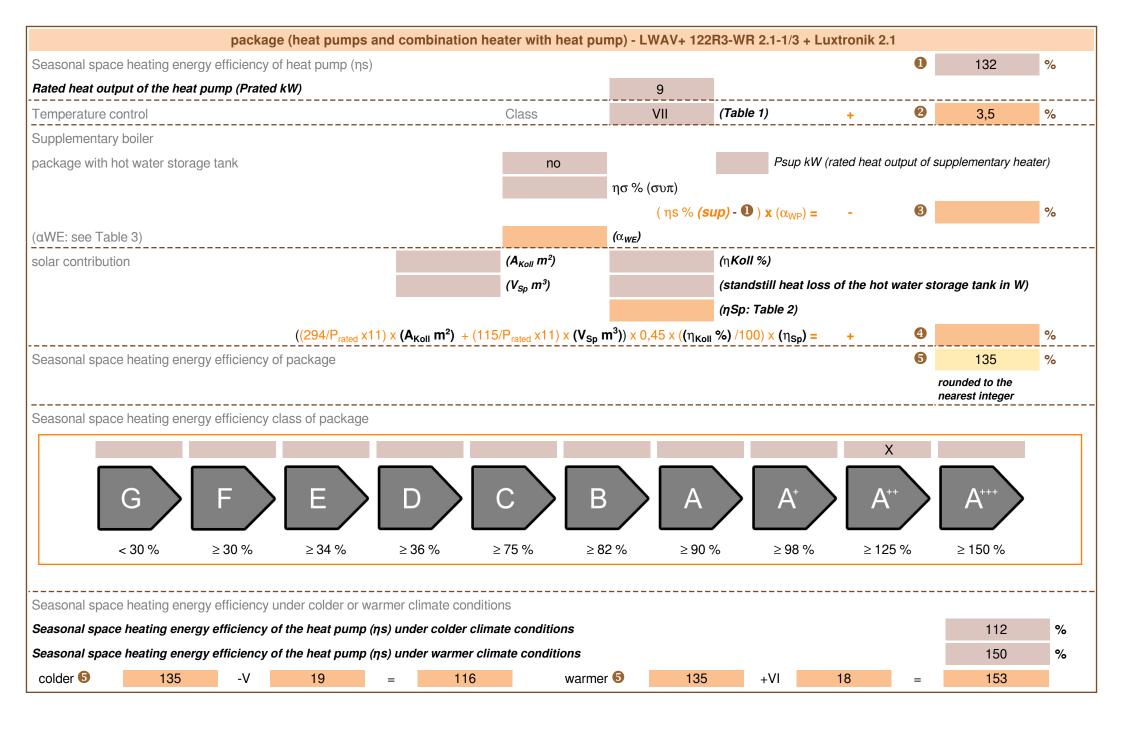












heatpump datasheet:				
	T			
manufacturer:	alpha innotec			
model:	LWAV+ 122R3-WR 2.1-1/3			
Information concerning energy efficiency class and	rated heat output:			
		-		
	average / low	average / medium		
energy efficiency class space heater:	A++	A++	-	
rated heat output:	10	9	kW	
energy efficiency space heater:	174	132	%	
annual final energy consumption space heater	4681	5398	kWh	
	•	•		
sound power level indoors		-	dB	
		•	•	
special precautions concerning assembly, installatio	on or maintenance			
regulations.				
additional information	low	medium		
rated heat output colder climate	9	7	kW	
rated heat output warmer climate	7	7	kW	
energy effiency space heater colder climate	132	112	%	
energy effiency space heater warmer climate	181	150	%	
annual energy consumption space heater colder climate	6290	5984	kWh	
annual energy consumption space heater warmer climate	1887	2268	kWh	
			1	
sound power level outdoors		51	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				LWAV+ 122R3-WR 2.1-1/3			
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: (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	9	kW	Seasonal space heating energy efficiency	ηS	131,7	%
Declared coefficient of performance for part load at indoor			Declared coefficient of perfor temperature 20°C and outdoor			indoor	
Tj = -7°C	Pdh	8,3	kW	Tj = -7°C	COPd	2,18	-
Tj = +2°C	Pdh	4,8	kW	Tj = +2°C	COPd	3,28	-
Tj = +7°C	Pdh	5,2	kW	Tj = +7°C	COPd	4,54	-
Tj = +12°C	Pdh	6,0	kW	Tj = +12°C	COPd	6,15	-
Tj = bivalent temperature	Pdh	8,3	kW	Tj = bivalent temperature	COPd	2,18	-
Tj = operation limit temperature	Pdh	6,7	kW	Tj = operation limit temperature	COPd	1,94	-
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 thai	n active mod	e	Supplementary heater			
Off mode	P _{OFF}	0,020	kW	Rated heat output	Psup	2,1	kW
Thermostat-off mode	P _{TO}	0,020	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,020	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.900	m ³ /h
sound power level, indoors/outdoors	L _{WA}	- / 51	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	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				LWAV+ 122R3-WR 2.1-1/3			
Air-to-water heat pump: (yes/no)				yes			
Brine-to-water heat pump: (yes/no)			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)			low	low			
climate: (colder/average/warmer))			average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	10	kW	Seasonal space heating energy efficiency	ηS	173,5	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	8,5	kW	Tj = -7°C	COPd	2,60	-
Tj = +2°C	Pdh	5,3	kW	Tj = +2°C	COPd	4,52	-
Tj = +7°C	Pdh	6,3	kW	Tj = +7°C	COPd	6,04	-
Tj = +12°C	Pdh	6,7	kW	Tj = +12°C	COPd	7,34	-
Tj = bivalent temperature	Pdh	8,5	kW	Tj = bivalent temperature	COPd	2,60	-
Tj = operation limit temperature	Pdh	7,5	kW	Tj = operation limit temperature	COPd	2,58	-
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 thai	n active mod	le	Supplementary heater	!		
Off mode	P _{OFF}	0,020	kW	Rated heat output	Psup	2,5	kW
Thermostat-off mode	P _{TO}	0,020	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,020	kW	1			
Crankcase heater mode	P _{CK}	-	kW	1			
Other items	•				•		
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.900	m ³ /h
sound power level, indoors/outdoors	L _{WA}	- / 51	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	ndustriestr. 3	95359 Kasendorf Germany			•
				the rated heat output Prated is equ			eating
(**) If Cdh is not determined by m		•	-			2 . 2/	