

100777HV1241

alpha innotec

LWAV 122R3-HV 12-3



55°C

35 °C







9

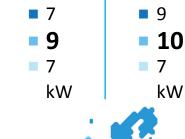
kW



44 dB



58 dB





2019

811/2013



100777HV1241

alpha innotec

LWAV 122R3-HV 12-3



55 °C

35 °C



Λ ++

Δ+

Δ

В

L

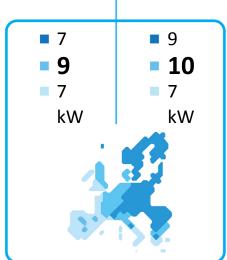
A⁺⁺







58 dB



2019

811/2013



IJA ENERG енергия · ενεργεια

100777HV1241

alpha innotec

LWAV 122R3-HV 12-3 + Luxtronik 2.1



























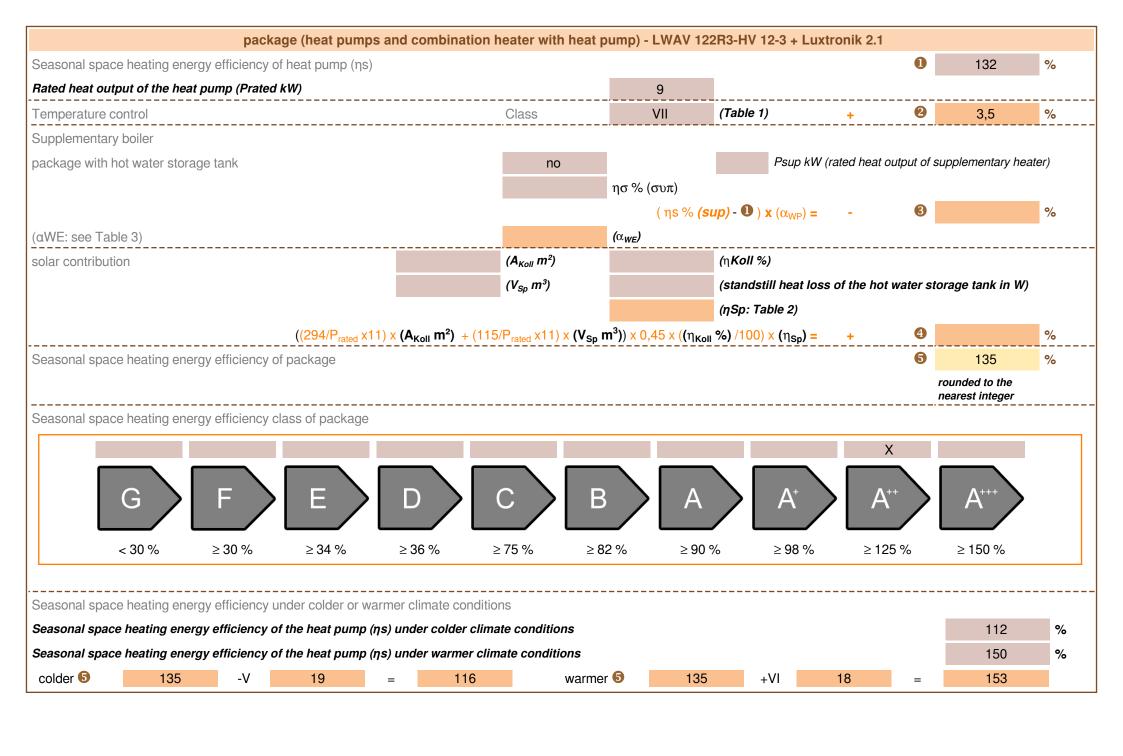






E





heatpump datasheet:			
manufacturer:	alpha innotec		
model:	LWAV 122R3-HV 12-3		
	•		
Information concerning energy efficiency class and rat	ted 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
	· ·	<u>!</u>	
sound power level indoors		44	dB
·			
special precautions concerning assembly, installation	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
	I	1	
sound power level outdoors		58	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 122R3-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: (yes/no)			no					
Equipped with supplementary heater: (yes/no)				yes				
combination heater with: (yes/no) application: (low/medium)				no				
				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 perfor temperature 20°C and outdoor			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 than	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}	44 / 58	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	 	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.	-	- 1 ()/		

Model				LWAV 122R3-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: (yes/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	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	active mod	e	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				
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}	44 / 58	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	dustriestr. 3	95359 Kasendorf Germany			
				the rated heat output Prated is equ equal to the supplementary capac			eating