

100779HV1241

alpha innotec

LWAV+ 122R3-HV 12-3



55°C

35 °C



Λ++

 A^+

Δ

_

A⁺⁺

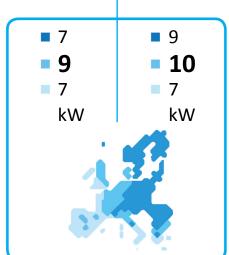




44 dB



51 dB



2019

811/2013



100779HV1241

alpha innotec

LWAV+ 122R3-HV 12-3



55 °C

35 °C



Λ++

Δ+

Δ

В

C



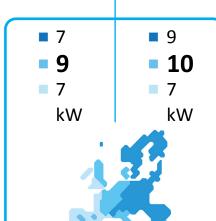




44 dB



51 dB



2019

811/2013



ENERG IJA енергия · ενεργεια

100779HV1241

alpha innotec

LWAV+ 122R3-HV 12-3 + Luxtronik 2.1

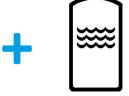






































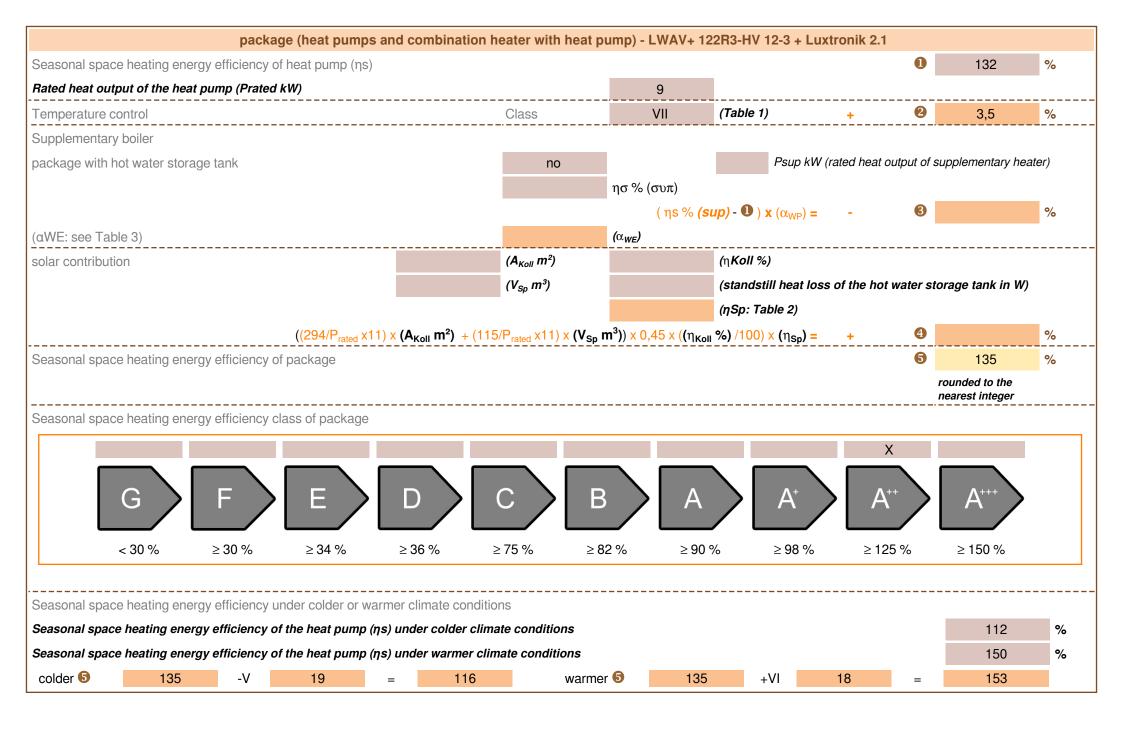












heatpump datasheet:				
manufacturer:	alpha innotec LWAV+ 122R3-HV 12-3			
model:				
Information concerning energy efficiency class and ra	ted heat output:			
	average / low	average / medium		
energy efficiency class space heater:	A++	A++	-	
rated heat output:	10	9	kW	
energy efficiency space heater:	174	132	%	
annual final energy consumption space heater	4681	5398	kWh	
sound power level indoors		44	dB	
			•	
special precautions concerning assembly, installation	or maintenance			
All instructional work in this manual may only be carried out be regulations.	y quamed specialist person	iner in compliance with loca	41	
	T 1			
additional information	low	medium	1114	
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	
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 en	ergy efficiency space heater	3,5	%		

Model				LWAV+ 122R3-HV 12-3			
Air-to-water heat pump: (yes/no)			yes	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 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 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}	44 / 51	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	1	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
(**) If Cdh is not determined by m	neasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.			

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 perfort temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
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 / 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	dustriestr. 3	95359 Kasendorf Germany			•
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m							