

10069742

alpha innotec

SWC 192K3



55 °C

35 °C



**Λ**++

Δ+

A

D

A<sup>++</sup>





**50** dB



**-** dB

19
21
21
21
21
22
kW



2019

811/2013



10069742

alpha innotec

SWC 192K3



55 °C

35 °C



**Λ** ++

 $\mathbf{A}^{+}$ 

Δ

В

L

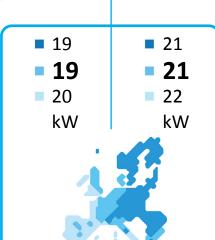
A<sup>++</sup>



**50** dB



**-** dB



2019

811/2013



## IJA ENERG енергия · ενεργεια

10069742

alpha innotec

SWC 192K3 + Luxtronik 2.1



















































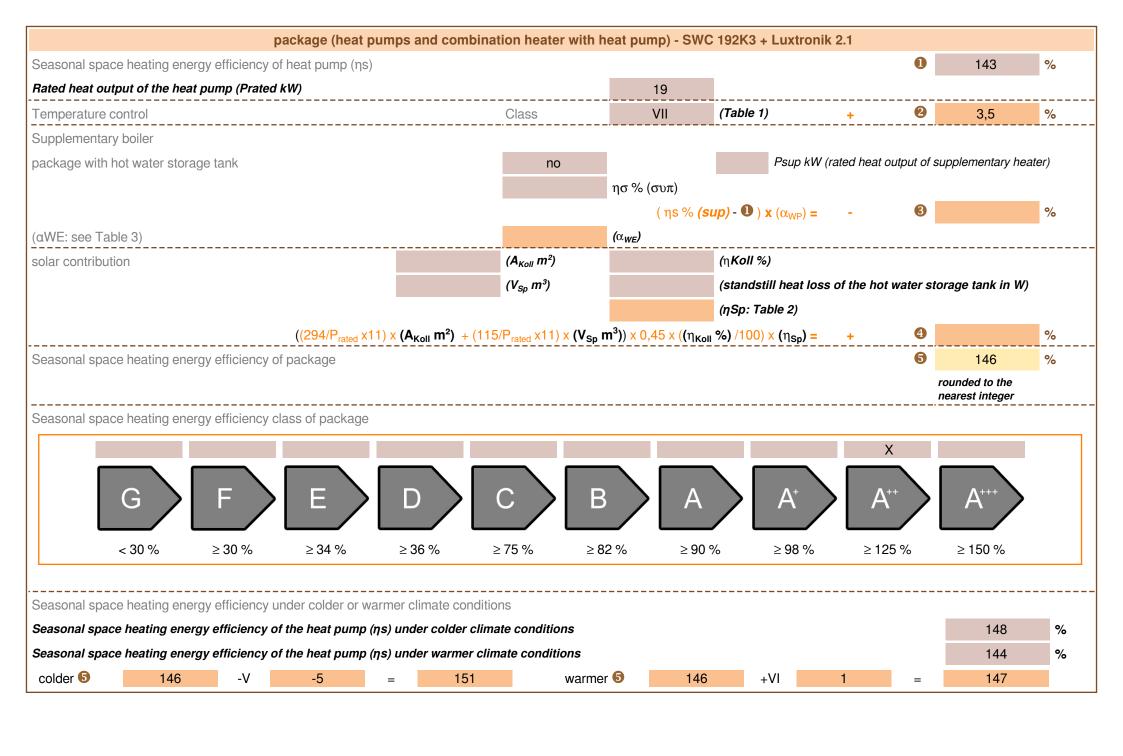












manufacturori	alpha innotae			
manufacturer:	alpha innotec SWC 192K3			
model:				
lufa-markian and an annual Makanan alama and an	- 1 1 4 4 4			
Information concerning energy efficiency class and rate	ed neat output:			
	average / low	average / medium		
energy efficiency class space heater:	A+++	A++	_	
rated heat output:	21	19	kW	
energy efficiency space heater:	205	143	%	
annual final energy consumption space heater	8139	10328	kWh	
	•			
sound power level indoors		50	dB	
special precautions concerning assembly, installation of	vr maintonanco			
regulations.				
additional information	low	medium		
	low 21	medium 19	kW	
rated heat output colder climate			kW	
rated heat output colder climate rated heat output warmer climate	21	19		
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	21 22	19 20	kW	
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate	21 22 212	19 20 148	kW %	
additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate	21 22 212 207	19 20 148 144	kW % %	
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate annual energy consumption space heater colder climate	21 22 212 207 9334	19 20 148 144 11851	kW % % kWh	

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				SWC 192K3			
Air-to-water heat pump: (yes/no)				no			
Brine-to-water heat pump: (yes/no)				yes			
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	19	kW	Seasonal space heating energy efficiency	ηS	142,8	%
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of perfor temperature 20°C and outdoor			indoor	
Tj = -7°C	Pdh	16,7	kW	Tj = -7°C	COPd	3,09	-
Tj = +2°C	Pdh	17,5	kW	Tj = +2°C	COPd	3,75	-
Tj = +7°C	Pdh	18,0	kW	Tj = +7°C	COPd	4,25	-
Tj = +12°C	Pdh	18,5	kW	Tj = +12°C	COPd	4,81	-
Tj = bivalent temperature	Pdh	16,7	kW	Tj = bivalent temperature	COPd	3,09	-
Tj = operation limit temperature	Pdh	16,4	kW	Tj = operation limit temperature	COPd	2,88	-
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 that	n active mod	e	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	2,5	kW
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	•
Standby mode	P <sub>SB</sub>	0,015	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	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	-	4	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		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				SWC 192K3			
Air-to-water heat pump: (yes/no)				no			
Brine-to-water heat pump: (yes/no)				yes			
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	21	kW	Seasonal space heating energy efficiency	ηS	205,1	%
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7°C	Pdh	18,6	kW	Tj = -7°C	COPd	5,04	-
Tj = +2°C	Pdh	18,8	kW	Tj = +2°C	COPd	5,35	-
Tj = +7°C	Pdh	19,0	kW	Tj = +7°C	COPd	5,67	-
Tj = +12°C	Pdh	19,2	kW	Tj = +12°C	COPd	5,95	-
Tj = bivalent temperature	Pdh	18,6	kW	Tj = bivalent temperature	COPd	5,04	-
Tj = operation limit temperature	Pdh	18,5	kW	Tj = operation limit temperature	COPd	4,88	-
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 that	n active mod	e	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	2,5	kW
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	•
Standby mode	P <sub>SB</sub>	0,015	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	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	-	4	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		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.		-	