

10069642

alpha innotec

SWC 172K3



55 °C

35 °C



\Lambda ++

A⁺

Δ

R

A++

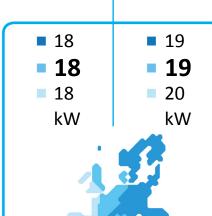
A***



48 dB



- dB



2019

811/2013



10069642

alpha innotec

SWC 172K3



55 °C

35 °C



Λ++

 $\mathbf{\Delta}^{+}$

Δ

D

L

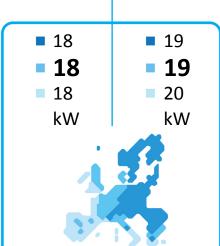
A++

A***





- dB



2019

811/2013



ENERG Y UA EHEPΓИЯ · ενεργεια IE IA

10069642

alpha innotec

SWC 172K3 + Luxtronik 2.1

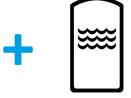






























A

B

C

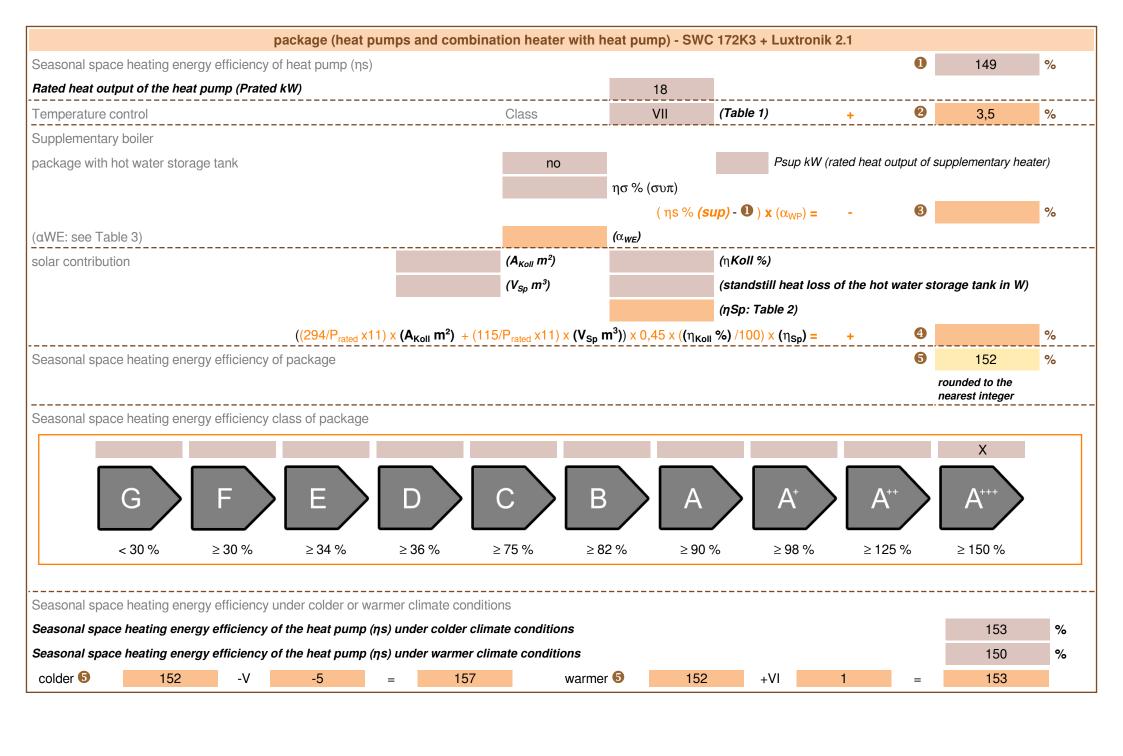
D

Ε

F

G





manufacturer:	alnha innotec			
	alpha innotec SWC 172K3			
model:				
Information concerning analysis officional place and ret	ad boot output			
Information concerning energy efficiency class and rate	ed fleat output.			
	average / low	average / medium		
energy efficiency class space heater:	A+++	A++	_	
rated heat output:	19	18	kW	
energy efficiency space heater:	206	149	%	
annual final energy consumption space heater	7397	9400	kWh	
	•		•	
sound power level indoors		48	dB	
special precautions concerning assembly, installation of	or maintenance			
regulations.				
additional information	low	medium		
	low 19	medium 18	kW	
additional information rated heat output colder climate rated heat output warmer climate			kW	
rated heat output colder climate rated heat output warmer climate	19	18		
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	19 20	18 18	kW	
rated heat output colder climate	19 20 213	18 18 153	kW %	
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate	19 20 213 208	18 18 153 150	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	19 20 213 208 8527	18 18 153 150 10799	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 172K3			
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	18	kW	Seasonal space heating energy efficiency	ηS	148,9	%
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	15,8	kW	Tj = -7°C	COPd	3,27	-
Tj = +2°C	Pdh	16,3	kW	Tj = +2°C	COPd	3,90	-
Tj = +7°C	Pdh	16,6	kW	Tj = +7°C	COPd	4,39	-
Tj = +12°C	Pdh	16,9	kW	Tj = +12°C	COPd	4,99	-
Tj = bivalent temperature	Pdh	15,8	kW	Tj = bivalent temperature	COPd	3,27	-
Tj = operation limit temperature	Pdh	15,6	kW	Tj = operation limit temperature	COPd	3,07	-
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 that	n active mod	e	Supplementary heater			
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	2,3	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,015	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h
sound power level, indoors/outdoors	L _{WA}	48 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	4	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 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 172K3				
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	19	kW	Seasonal space heating energy efficiency	ηS	206,2	%	
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor	
Tj = -7°C	Pdh	16,9	kW	Tj = -7°C	COPd	5,07	-	
Tj = +2°C	Pdh	17,1	kW	Tj = +2°C	COPd	5,38	-	
Tj = +7°C	Pdh	17,2	kW	Tj = +7°C	COPd	5,69	-	
Tj = +12°C	Pdh	17,3	kW	Tj = +12°C	COPd	6,04	-	
Tj = bivalent temperature	Pdh	16,9	kW	Tj = bivalent temperature	COPd	5,07	-	
Tj = operation limit temperature	Pdh	16,9	kW	Tj = operation limit temperature	COPd	4,93	-	
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 that	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	2,3	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	•	
Standby mode	P _{SB}	0,015	kW					
Crankcase heater mode	P _{CK}	-	kW					
Other items								
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /h	
sound power level, indoors/outdoors	L _{WA}	48 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	4	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 equal to the supplementary capac			eating	
(**) If Cdh is not determined by m		•			•			
			-					