

10069342

alpha innotec

SWC 102K3



55 °C

35 °C



**Λ** ++

 $A^+$ 

Δ

P

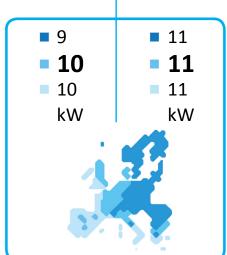
A++







- dB



2019

811/2013



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alpha innotec

SWC 102K3



55 °C

35 °C



**Λ** ++

 $\mathbf{A}^{+}$ 

Δ

B

L

A<sup>++</sup>

A\*\*\*





dB



2019

811/2013



## ENERG Y (JA) ehepγuя · ενεργεια (Ε) (ΙΑ)

10069342

alpha innotec

SWC 102K3 + Luxtronik 2.1





























C

D

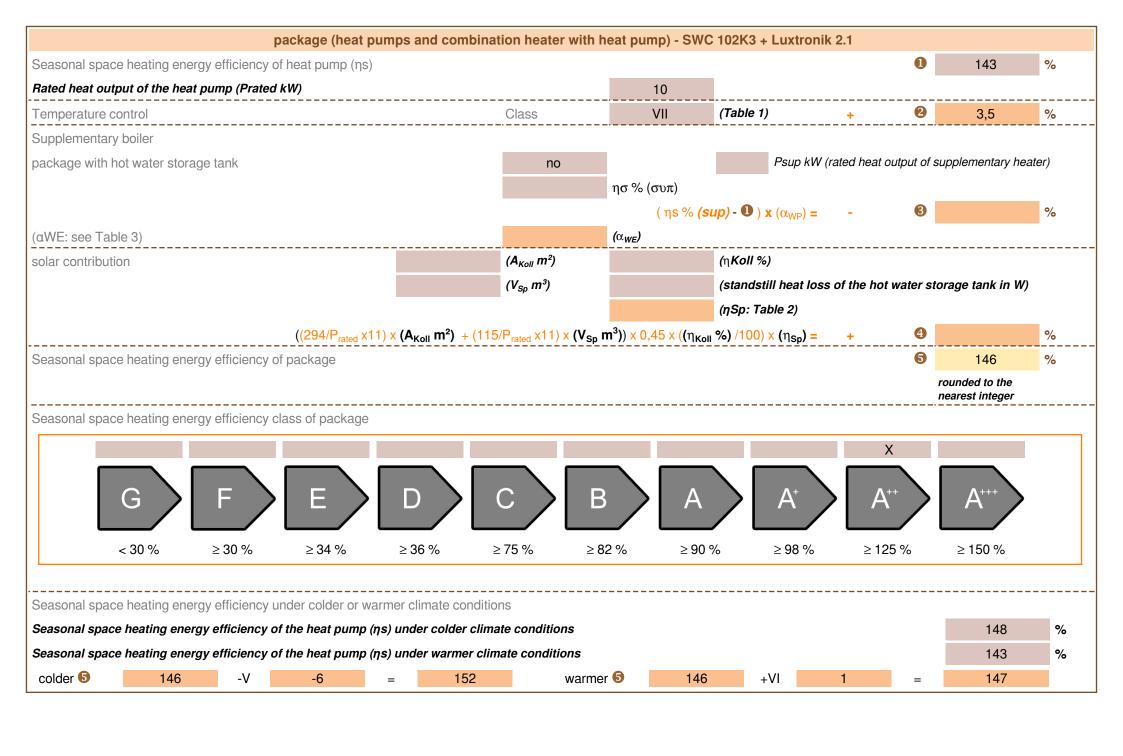
Ε

F

G







heatpump datasheet:					
manufacturer:	alpha innotec				
model:	SWC 102K3				
Information concerning energy efficiency class and rat	ed heat output:				
	average / low	average / medium			
energy efficiency class space heater:	A+++	A++	-		
rated heat output:	11	10	kW		
energy efficiency space heater:	214	143	%		
annual final energy consumption space heater	3934	5241	kWh		
			-		
sound power level indoors		44	dB		
special precautions concerning assembly, installation					
All instructional work in this manual may only be carried out b	y qualified specialist persor	nnel in compliance with loca	al		
regulations.					
additional information	low	medium			
rated heat output colder climate	11	9	kW		
rated heat output warmer climate	11	10	kW		
energy effiency space heater colder climate	223	148	%		
energy effiency space heater warmer climate	215	143	%		
annual energy consumption space heater colder climate	4478	5980	kWh		
annual energy consumption space heater warmer climate	2619	3497	kWh		
		1			
sound power level outdoors		-	dB		
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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				SWC 102K3			
Air-to-water heat pump: (yes/no)			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	10	kW	Seasonal space heating energy efficiency	ηS	142,7	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	8,5	kW	Tj = -7°C	COPd	3,05	-
Tj = +2°C	Pdh	8,9	kW	Tj = +2°C	COPd	3,76	-
Tj = +7°C	Pdh	9,1	kW	Tj = +7°C	COPd	4,35	-
Tj = +12°C	Pdh	9,4	kW	Tj = +12°C	COPd	5,09	-
Tj = bivalent temperature	Pdh	8,5	kW	Tj = bivalent temperature	COPd	3,05	-
Tj = operation limit temperature	Pdh	8,3	kW	Tj = operation limit temperature	COPd	2,82	-
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 thai	n active mod	le	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	1,3	kW
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	•
Standby mode	$P_{SB}$	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	-	-	m³/h
sound power level, indoors/outdoors	L <sub>WA</sub>	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	2	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	$\eta_{\text{wh}}$	_	%
Daily electricity consumption	Q <sub>elec</sub>	-	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 def	ault degrada	tion coefficient is Cdh = 0,9.			

Model				SWC 102K3			
Air-to-water heat pump: (yes/no)			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	11	kW	Seasonal space heating energy efficiency	ηS	214,2	%
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	9,4	kW	Tj = -7°C	COPd	5,23	-
Tj = +2°C	Pdh	9,5	kW	Tj = +2°C	COPd	5,63	-
Tj = +7°C	Pdh	9,6	kW	Tj = +7°C	COPd	6,05	-
Tj = +12°C	Pdh	9,7	kW	Tj = +12°C	COPd	6,52	-
Tj = bivalent temperature	Pdh	9,4	kW	Tj = bivalent temperature	COPd	5,23	-
Tj = operation limit temperature	Pdh	9,3	kW	Tj = operation limit temperature	COPd	5,05	-
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 than active mode			Supplementary heater				
Off mode	P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	1,3	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>	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	2	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	it then the defa	ault degrada	tion coefficient is Cdh = 0,9.			