

10068041

alpha innotec

SWC 42H3



55 °C

35 °C



**Λ** ++

 $A^+$ 

Δ

B

L

D

A<sup>++</sup>

A+++



**43** dB



dB

**5 5** 

■ 5 kW **6** 

**6** 

■ 6 kW



2019

811/2013



10068041

alpha innotec

SWC 42H3



55 °C

35 °C



Λ++

Λ+

Δ

D

L

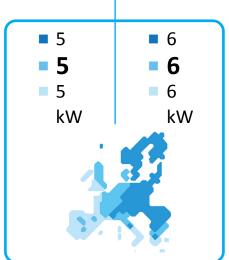
**A**++







**-** dB



2019

811/2013



## IJA ENERG енергия · ενεργεια

10068041

alpha innotec

SWC 42H3 + Luxtronik 2.1











































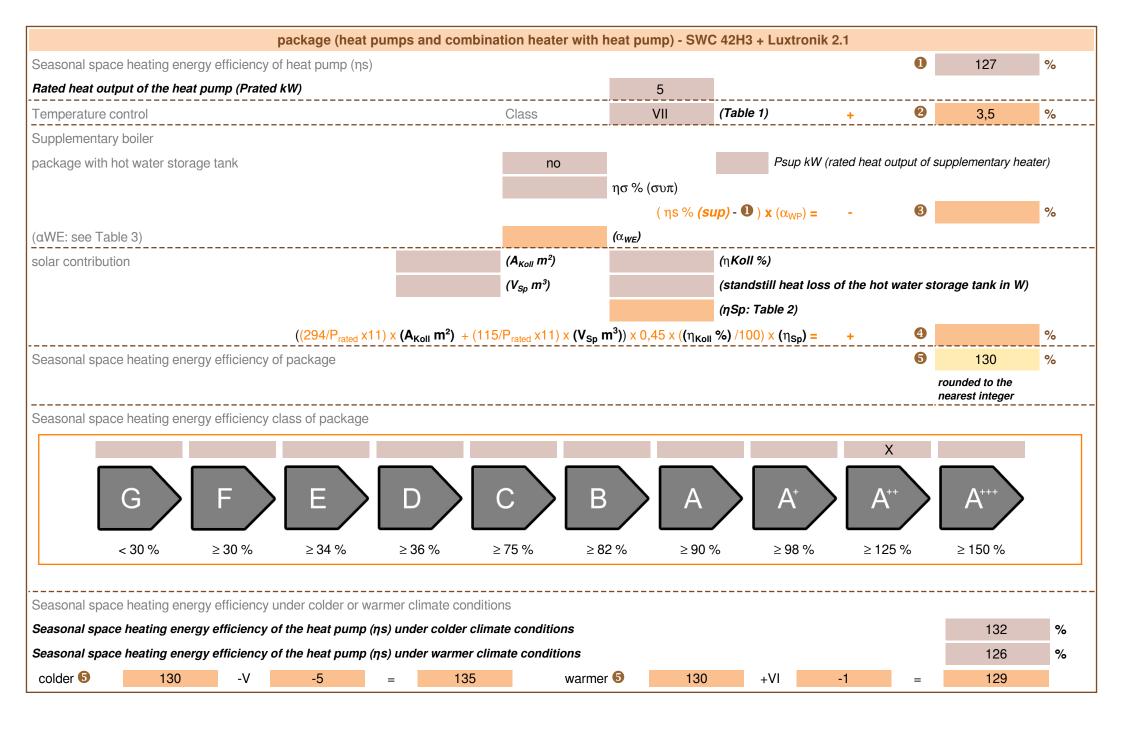












manufacturer:	alpha innatas			
	alpha innotec			
model:	SWC 42H3			
Information concerning anomy officionary place and not	ad baat autout			
Information concerning energy efficiency class and rate	ea neat output:			
	average / low	average / medium		
energy efficiency class space heater:	A+++	A++	_	
rated heat output:	6	5	kW	
energy efficiency space heater:	191	127	%	
annual final energy consumption space heater	2304	2954	kWh	
annual final energy consumption space heater	2504	2334	KVVII	
sound power level indoors		43	dB	
Sound power level indoors		45	I GD	
All instructional work in this manual may only be carried out by	y qualified specialist persor	nnel in compliance with loca	al	
All instructional work in this manual may only be carried out by regulations.	y qualified specialist persor	nnel in compliance with loca	al	
·	y qualified specialist persor	nnel in compliance with loca	al	
·	y qualified specialist persor	nnel in compliance with loca	al	
regulations.			al kW	
regulations.  additional information	low	medium		
additional information rated heat output colder climate	low 6	medium 5	kW	
additional information rated heat output colder climate rated heat output warmer climate	low 6 6	medium 5 5	kW kW	
additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	low 6 6 198	medium 5 5 132	kW 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	low 6 6 198 190	medium 5 5 132 126	kW 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	low 6 6 198 190 2634	medium 5 5 132 126 3382	kW kW % % kWh	

technical data of the temperature	chnical 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	%		

dium rage n Isonal space heating regy efficiency clared coefficient of perform reperature 20°C and outdoo -7°C +2°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: cration limit temperature ling interval efficiency ting water operating limit perature			Unit % ndoor - - - - - -
rage n Isonal space heating rgy efficiency clared coefficient of perform reperature 20°C and outdoo -7°C +2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: cration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
rage n Isonal space heating rgy efficiency clared coefficient of perform reperature 20°C and outdoo -7°C +2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: cration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
rage n Isonal space heating rgy efficiency clared coefficient of perform reperature 20°C and outdoo -7°C +2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: cration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
rage n Isonal space heating rgy efficiency clared coefficient of perform reperature 20°C and outdoo -7°C +2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: cration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
rage n Isonal space heating rgy efficiency clared coefficient of perform reperature 20°C and outdoo -7°C +2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: cration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
rage n Isonal space heating rgy efficiency clared coefficient of perform reperature 20°C and outdoo -7°C +2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: cration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
nsonal space heating ergy efficiency clared coefficient of performage rature 20°C and outdoo -7°C +2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
ergy efficiency clared coefficient of performance are 20°C and outdood -7°C +2°C +12°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	126,8  part load at iture Tj  2,79  3,45  3,93  4,35  2,79  2,58  -  -10	% ndoor
ergy efficiency clared coefficient of performation perature 20°C and outdoor -7°C +2°C +2°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	part load at iture Tj 2,79 3,45 3,93 4,35 2,79 2,5810	ndoor
perature 20°C and outdoo  -7°C  +2°C  +7°C  +12°C  bivalent temperature  operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	COPd COPd COPd COPd COPd COPd COPd TOL	2,79 3,45 3,93 4,35 2,79 2,5810	- - - -
+2°C +7°C +12°C bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	COPd COPd COPd COPd COPd TOL	3,45 3,93 4,35 2,79 2,58 -	
+7°C  +12°C  bivalent temperature  operation limit temperature  air-to-water heat pumps: Tj 5°C (if TOL < -20°C)  air-to-water heat pumps: eration limit temperature  ling interval efficiency	COPd COPd COPd COPd TOL	3,93 4,35 2,79 2,58 - -10	-
bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	COPd COPd COPd COPd	4,35 2,79 2,58 - -	-
bivalent temperature operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	COPd COPd COPd TOL	2,79 2,58 - -10	-
operation limit temperature air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	COPd COPd TOL	2,58 - -10	- - - °C
air-to-water heat pumps: Tj 5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	COPd TOL	-10	- - °C
5°C (if TOL < -20°C) air-to-water heat pumps: eration limit temperature ling interval efficiency	TOL		- °C
eration limit temperature ling interval efficiency uting water operating limit			°C
ting water operating limit	COPcyc	-	-
	WTOL	60	°C
plementary heater			•
ed heat output	Psup	0,7	kW
e of energy input		electrical	•
	-	-	m <sup>3</sup> /h
nps: Rated brine or water rate, outdoor heat	-	1	m <sup>3</sup> /h
			•
er heating energy efficiency	$\eta_{wh}$	-	%
	Qfuel	-	kWh
•			
r m wcl	r air-to-water heat pumps:  Ited air flow rate, outdoors  r water-/brine-to-water heat mps: Rated brine or water w rate, outdoor heat changer  ater heating energy efficiency illy fuel consumption  59 Kasendorf Germany ated heat output Prated is equa	ater heating energy efficiency quel  The send of Germany  ated air flow rate, outdoors  ar water-/brine-to-water heat  mps: Rated brine or water  w rate, outdoor heat  changer  The send of Germany  ated heat output Prated is equal to the dest	ted air flow rate, outdoors  r water-/brine-to-water heat mps: Rated brine or water w rate, outdoor heat changer  ater heating energy efficiency  nily fuel consumption  quadrate heating energy efficiency  Qfuel  -

Model				SWC 42H3			
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 he	ater: (yes/n	0)		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	6	kW	Seasonal space heating energy efficiency	ηS	190,7	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	4,9	kW	Tj = -7°C	COPd	4,87	-
Tj = +2°C	Pdh	5,0	kW	Tj = +2°C	COPd	5,17	-
Tj = +7°C	Pdh	5,0	kW	Tj = +7°C	COPd	5,46	-
Tj = +12°C	Pdh	5,1	kW	Tj = +12°C	COPd	5,54	-
Tj = bivalent temperature	Pdh	4,9	kW	Tj = bivalent temperature	COPd	4,87	-
Tj = operation limit temperature	Pdh	4,9	kW	Tj = operation limit temperature	COPd	4,70	-
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	0,7	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>	43 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	1	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		•			-	, ,,	
			-				