

10070642

alpha innotec

SW 172H3



55 °C

35 °C



**Λ** ++

 $A^+$ 

Δ

В

L

D



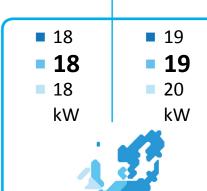




**48** dB



- dB



2019

811/2013



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SW 172H3



55 °C

35 °C



Λ++

Δ+

Δ

B

L

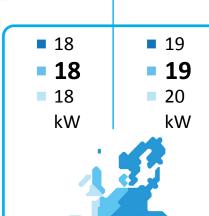
A++







dB



2019 811/2013



## IJA ENERG енергия · ενεργεια

10070642

alpha innotec

SW 172H3 + Luxtronik 2.1





















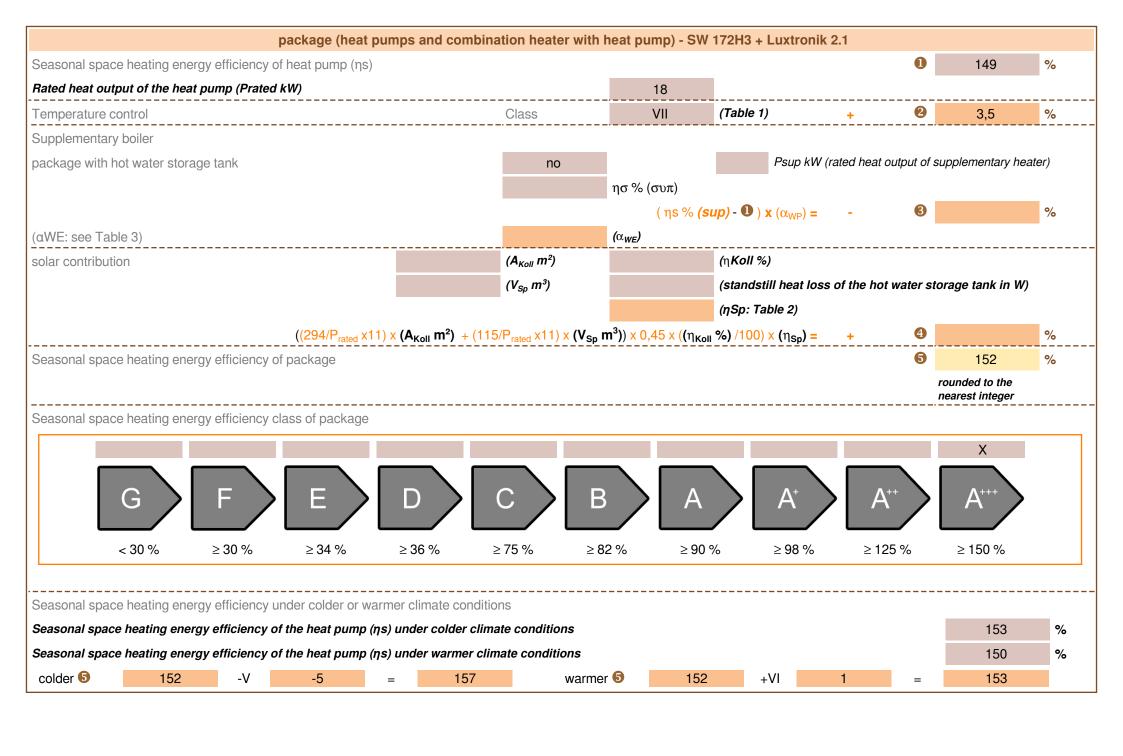








2015 811/2013



manufacturer:	alpha innotos			
	alpha innotec			
model:	SW 172H3			
Information concerning analysis officional place and ret	ad boot output			
Information concerning energy efficiency class and rate	ed neat 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	
All instructional work in this manual may only be carried out by regulations.	qualified specialist persor	nnel in compliance with loca	al	
	, qualified specialist persor	nnel in compliance with loca	al	
	, qualified specialist persor	nnel in compliance with loca	al	
regulations.	r qualified specialist persor	nnel in compliance with loca	al	
regulations.  additional information			kW	
	low	medium		
additional information rated heat output colder climate	low 19	medium 18	kW	
additional information rated heat output colder climate rated heat output warmer climate	low 19 20	medium 18	kW kW	
additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	low 19 20 213	medium 18 18 18	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 19 20 213 208	medium  18  18  153  150	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 19 20 213 208 8527	medium  18  18  153  150  10799	kW kW % kWh	

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	%		

SW 172H3			
yes			
no			
no			
medium			
	Symbol	Value	Unit
space heating iciency	ηS	148,9	%
coefficient of perfo re 20°C and outdo			indoor
	COPd	3,27	-
	COPd	3,90	-
	COPd	4,39	-
,	COPd	4,99	-
nt temperature	COPd	3,27	-
ion limit temperature	COPd	3,07	-
vater heat pumps: Tj TOL < -20°C)	COPd	-	-
vater heat pumps: imit temperature	TOL	-10	°C
erval efficiency	COPcyc	-	-
ter operating limit	WTOL	60	°C
ntary heater			
output	Psup	2,3	kW
ergy input		electrical	
vater heat pumps: ow rate, outdoors	-	-	m <sup>3</sup> /h
brine-to-water heat ted brine or water utdoor heat	-	4	m <sup>3</sup> /h
	-	-	-
ing energy efficiency	$\eta_{wh}$	-	%
onsumption	Qfuel	-	kWh
ndorf Germany	•		
1	onsumption Indorf Germany at output Prated is eq supplementary capa	onsumption Qfuel and orf Germany at output Prated is equal to the descripplementary capacity for heating	onsumption Qfuel -

Model				SW 172H3			
			no				
Air-to-water heat pump: (yes/no)  Brine-to-water heat pump: (yes/no)			1 -				
Water-to-water heat pump: (yes/no)			no				
Low-temperature heat pump: (yes/no)			no				
Equipped with supplementary heater: (yes/no)							
combination heater with: (yes/no)			yes no				
application: (low/medium)	1			low			
climate: (colder/average/warmer)			average				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	19	kW	Seasonal space heating	ηS	206,2	%
Trated fiedt output	Traica		IXVV	energy efficiency		200,2	/0
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			ndoor	
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 <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	e	Supplementary heater	•		
Off mode	P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	2,3	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>	48 / -	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	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 defa	ault degrada	tion coefficient is Cdh = 0,9.			