

100544LUX02

alpha innotec

LW 140A-LUX 2.0



55 °C

35 °C

A+++

Δ++

 $A^+$ 

A

B

L

D

A<sup>++</sup>

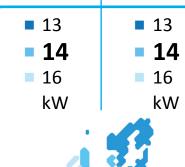




dB



**58** dB





2019

811/2013



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LW 140A-LUX 2.0



55 °C

35 °C



**^**++

Δ+

A

R

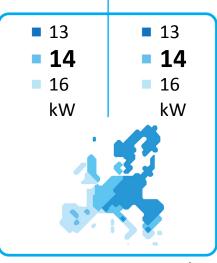
C

A++









2019

811/2013



## ENERG IJA енергия · ενεργεια

100544LUX02

alpha innotec

LW 140A-LUX 2.0 + Luxtronik 2.0































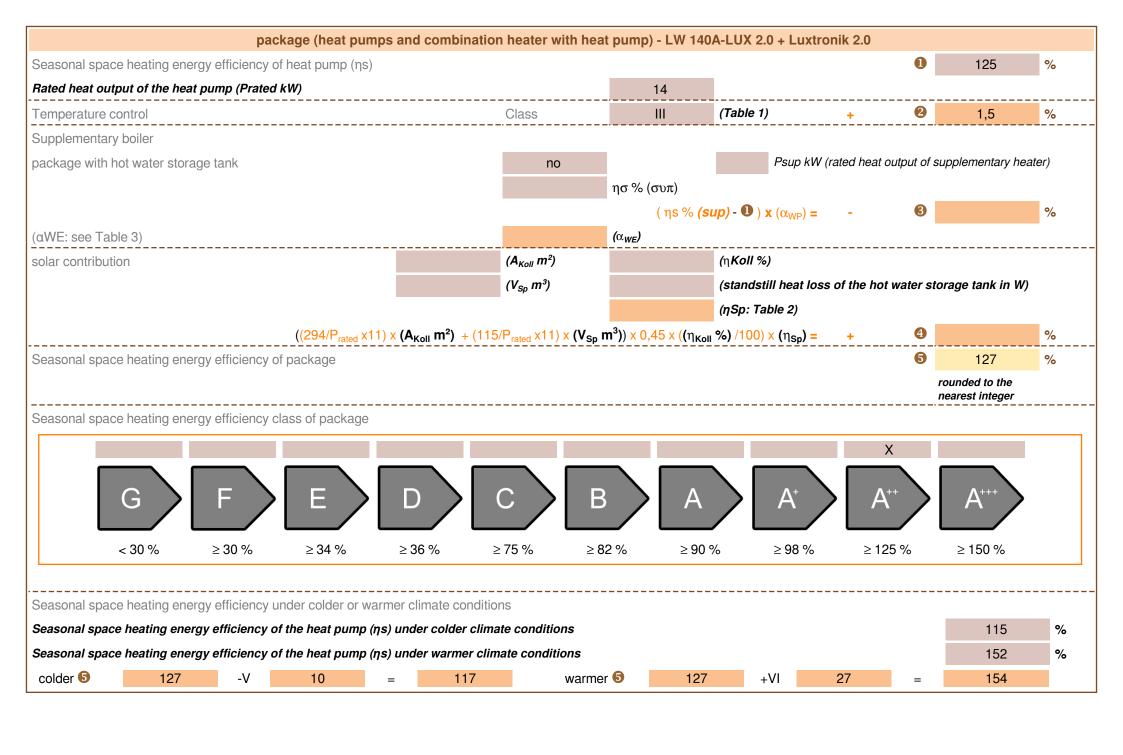




E



2015 811/2013



heatpump datasheet:			
manufacturer:	alpha innotec		
model:	LW 140A-LUX 2.0		
Information concerning energy efficiency class and	rated heat output:		
<u> </u>	·		
	average / low	average / medium	
energy efficiency class space heater:	A++	A++	-
rated heat output:	14	14	kW
energy efficiency space heater:	157	125	%
annual final energy consumption space heater	7447	8842	kWh
	•		•
sound power level indoors		-	dB
regulations.			
additional information	low	medium	
rated heat output colder climate	13	13	kW
rated heat output warmer climate	16	16	kW
energy effiency space heater colder climate	140	115	%
energy effiency space heater warmer climate	190	152	%
annual energy consumption space heater colder climate	9044	10533	kWh
annual energy consumption space heater warmer climate	4553	5391	kWh
	•	•	-
sound power level outdoors	58	dB	

technical data of the temperature controller			
manufacturer:	alpha innotec		
model:	Luxtronik 2.0		
controller class		III	-
contribution of the controller to the energy efficiency space heater		1,5	%

I space heating						
I space heating						
I space heating						
I space heating						
I space heating						
I space heating						
I space heating						
I space heating			medium			
I space heating		average				
I space heating	Symbol	Value	Unit			
fficiency	ηS	125,1	%			
I coefficient of performula ture 20°C and outdoo			ndoor			
	COPd	2,16	-			
	COPd	3,10	-			
	COPd	4,28	-			
С	COPd	5,27	-			
ent temperature	COPd	2,34	-			
ation limit temperature	COPd	1,96	-			
-water heat pumps: Tj if TOL < -20°C)	COPd	-	-			
-water heat pumps: n limit temperature	TOL	-10	°C			
terval efficiency	COPcyc	-	-			
vater operating limit ure	WTOL	50	°C			
entary heater						
at output	Psup	4,1	kW			
nergy input		electrical				
	•					
-water heat pumps: flow rate, outdoors	-	5.600	m <sup>3</sup> /h			
-/brine-to-water heat ated brine or water outdoor heat er	-	-	m <sup>3</sup> /h			
ating energy efficiency	$\eta_{wh}$	-	%			
aanaumrtic r	Qfuel	-	kWh			
consumption	<u>.                                    </u>		•			
-		I consumption Qfuel sendorf Germany eat output Prated is equal to the des	l consumption Qfuel -			

Model				LW 140A-LUX 2.0			
Air-to-water heat pump: (yes/no)			yes				
Brine-to-water heat pump: (yes/no)			no				
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	14	kW	Seasonal space heating energy efficiency	ηS	157,1	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
Tj = -7°C	Pdh	11,0	kW	Tj = -7°C	COPd	3,13	-
Tj = +2°C	Pdh	13,9	kW	Tj = +2°C	COPd	3,94	-
Tj = +7°C	Pdh	14,5	kW	Tj = +7°C	COPd	4,94	-
Tj = +12°C	Pdh	16,4	kW	Tj = +12°C	COPd	5,43	-
Tj = bivalent temperature	Pdh	11,7	kW	Tj = bivalent temperature	COPd	3,34	-
Tj = operation limit temperature	Pdh	10,2	kW	Tj = operation limit temperature	COPd	2,87	-
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>	-5	°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	50	°C
Power consumption in modes	other thai	n active mod	e	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,010	kW	Rated heat output	Psup	4,3	kW
Thermostat-off mode	P <sub>TO</sub>	0,010	kW	Type of energy input		electrical	-
Standby mode	$P_SB$	0,010	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	-	5.600	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	- / 58	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	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			
	and heat pu		ion heaters,	the rated heat output Prated is equ	al to the des	ign load for he	eating
Puesignin, and the rated heat out	put of a sup	plementary he	eater Psup is	equal to the supplementary capac	ity for heatin	ıg sup(Tj).	