

100544LUX02

alpha innotec

LW 140A-LUX 2.0



55 °C

35 °C

A+++

Δ++

 A^+

A

B

L

D

A⁺⁺

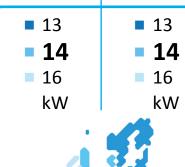




dB



58 dB





2019

811/2013



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LW 140A-LUX 2.0



55 °C

35 °C



^++

Δ+

A

R

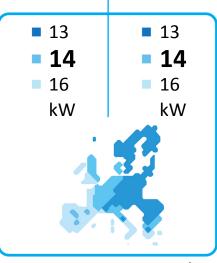
C

A++









2019

811/2013



ENERG IJA енергия · ενεργεια

100544LUX02

alpha innotec

LW 140A-LUX 2.0 + Luxtronik 2.0































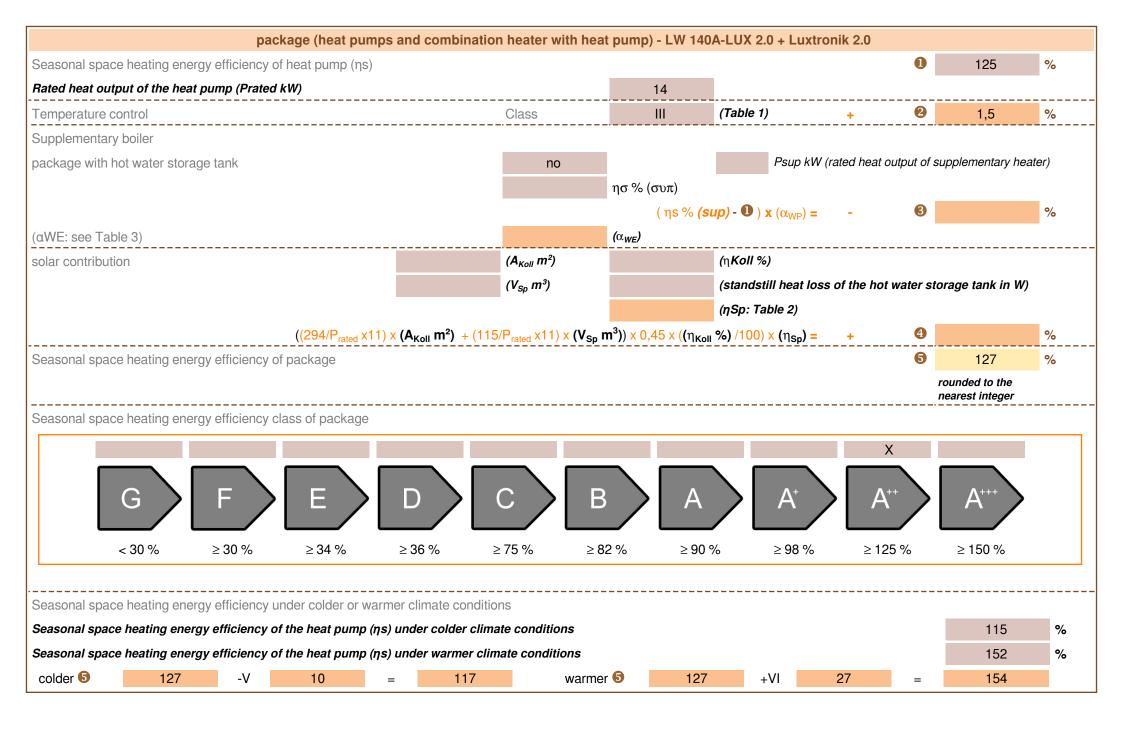




E



2015 811/2013



heatpump datasheet:			
manufacturer:	alpha innotec		
model:	LW 140A-LUX 2.0		
Information concerning energy efficiency class and ra	ted heat output:		
		-	
	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
			•
special precautions concerning assembly, installation	or maintenance		
All instructional work in this manual may only be carried out l regulations.	oy quamiou opoolanot poroon	mor in compilation with local	4
additional information	low	medium	T
	low		LAAI
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 hea	ater 1,5	%				

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				
ombination heater with: (yes/no)				no			
application: (low/medium)			medium				
limate: (colder/average/warmer)				average			
em	Symbol	Value	Unit	Item Symbol Value Unit			
lated heat output	Prated	14	kW	Seasonal space heating energy efficiency	ηS	125,1	%
Declared coefficient of perform emperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
ij = -7°C	Pdh	10,4	kW	Tj = -7°C	COPd	2,16	-
j = +2°C	Pdh	13,5	kW	Tj = +2°C	COPd	3,10	-
j = +7°C	Pdh	14,4	kW	Tj = +7°C	COPd	4,28	-
j = +12°C	Pdh	16,3	kW	Tj = +12°C	COPd	5,27	-
j = bivalent temperature	Pdh	11,1	kW	Tj = bivalent temperature	COPd	2,34	-
j = operation limit temperature	Pdh	9,6	kW	Tj = operation limit temperature	COPd	1,96	-
or 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	-	-
ivalent temperature	T_{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
cycling interval capacity for eating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
egradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	50	°C
ower consumption in modes	other than	active mod	e	Supplementary heater	•		•
Off mode	P_{OFF}	0,010	kW	Rated heat output	Psup	4,1	kW
hermostat-off mode	P _{TO}	0,010	kW	Type of energy input		electrical	
tandby mode	P_{SB}	0,010	kW				
rankcase heater mode	P _{CK}	-	kW				
Other items							
capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5.600	m ³ /h
ound power level, ndoors/outdoors	L _{WA}	- / 58	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
missions of nitrogen oxides	NO _X	-	mg/kWh	•	-	-	
or heat pump combination he	eater:						
eclared load profile		-		Water heating energy efficiency	η_{wh}	-	%
aily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details		and GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany			
) For heat pump space heaters a	and heat pu out of a supp	mp combinat olementary he	ion heaters, teater Psup is	the rated heat output Prated is equ equal to the supplementary capac			98

Model			LW 140A-LUX 2.0				
Air-to-water heat pump: (yes/no)			yes				
Brine-to-water heat pump: (yes/no)			no	no			
Water-to-water heat pump: (yes/no)			no				
Low-temperature heat pump: (yes/no)			no				
Equipped with supplementary he	ater: (yes/no	o)		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			indoor
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 _{biv}	-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	active mod	e	Supplementary heater			
Off mode	P _{OFF}	0,010	kW	Rated heat output	Psup	4,3	kW
Thermostat-off mode	P _{TO}	0,010	kW	Type of energy input		electrical	
Standby mode	P_{SB}	0,010	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5.600	m ³ /h
sound power level, indoors/outdoors	L _{WA}	- / 58	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	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	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	easuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.			