

10053202

alpha innotec

LW 140



55 °C

35 °C



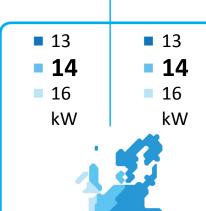




58 dB



56 dB



2019

811/2013



10053202

alpha innotec

LW 140



55 °C

35 °C



Λ++

Δ+

A

_

A⁺⁺





58 dB



56 dB

• 13 • 14 • 16 • kW kW



2019

811/2013



ENERG IJA енергия · ενεργεια

10053202

alpha innotec

LW 140 + Luxtronik 2.0





























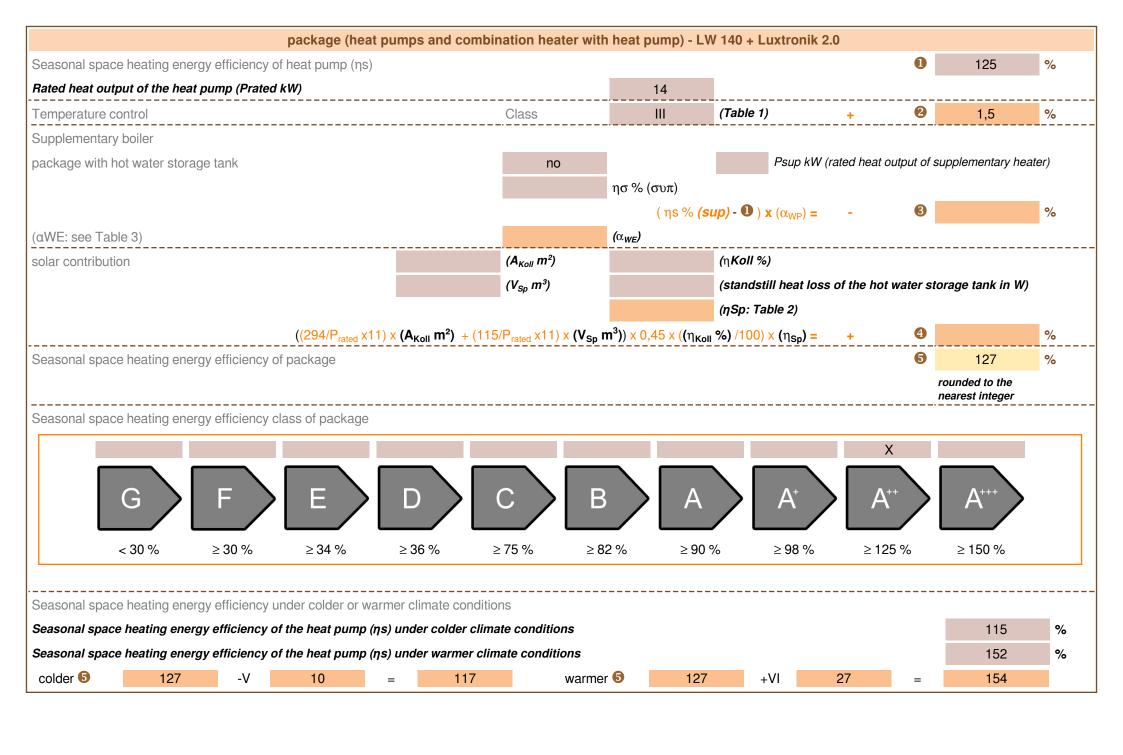








E



heatpump datasheet:				
manufacturer:	alpha innotec LW 140			
model:				
	L			
Information concerning energy efficiency class and	rated 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	
		<u>'</u>	!	
sound power level indoors		58	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	56	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	%			

Air-to-water heat pump: (yes/no) Brine-to-water heat pump: (yes/no) Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no) Equipped with supplementary heater: (yes/no) combination heater with: (yes/no) no	Symbol					
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	Symbol					
Low-temperature heat pump: (yes/no) no Equipped with supplementary heater: (yes/no) yes combination heater with: (yes/no) no	Symbol					
Equipped with supplementary heater: (yes/no) yes combination heater with: (yes/no) no	Symbol					
combination heater with: (yes/no)	Symbol					
	Symbol					
	Symbol					
application: (low/medium) medium	Symbol		medium			
climate: (colder/average/warmer) average	Symbol					
Item Symbol Value Unit Item		Value	Unit			
Rated heat output Prated 14 kW Seasonal space heating energy efficiency	η η	125,1	%			
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			indoor			
Tj = -7°C Pdh 10,4 kW $Tj = -7$ °C	COPd	2,16	-			
Tj = +2°C Pdh 13,5 kW $Tj = +2$ °C	COPd	3,10	-			
$Tj = +7^{\circ}C$ Pdh 14,4 kW $Tj = +7^{\circ}C$	COPd	4,28	-			
Tj = +12°C Pdh 16,3 kW Tj = +12°C	COPd	5,27	-			
Tj = bivalent temperature Pdh 11,1 kW Tj = bivalent temperature	COPd	2,34	-			
Tj = operation limit temperature Pdh 9,6 kW Tj = operation limit temperature	ature COPd	1,96	-			
For air-to-water heat pumps: Tj Pdh - kW For air-to-water heat pump = -15°C (if TOL < -20°C) = -15°C (if TOL < -20°C)	os: Tj COPd	-	-			
Bivalent temperature T _{biv} -5 °C For air-to-water heat pump Operation limit temperature		-10	°C			
Cycling interval capacity for Pcych - kW Cycling interval efficiency heating	COPcyc	-	-			
Degradation co-efficient (**) Cdh 1,0 - Heating water operating line temperature	mit WTOL	50	°C			
Power consumption in modes other than active mode Supplementary heater	•	•	•			
Off mode P _{OFF} 0,010 kW Rated heat output	Psup	4,1	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 pump Rated air flow rate, outdoo		5.600	m ³ /h			
sound power level, indoors/outdoors L _{WA} 58 / 56 dB For water-/brine-to-water h pumps: Rated brine or wat flow rate, outdoor heat exchanger		-	m ³ /h			
Emissions of nitrogen oxides NO _X - mg/kWh						
For heat pump combination heater:						
Declared load profile - Water heating energy effic	iency η _{wh}	-	%			
Daily electricity consumption Q _{elec} - kWh Daily fuel consumption	Qfuel	-	kWh			
Contact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany	•	-	-			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary			eating			
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.						

Model				LW 140			
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 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			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	n 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 / 56	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	1	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.		•	