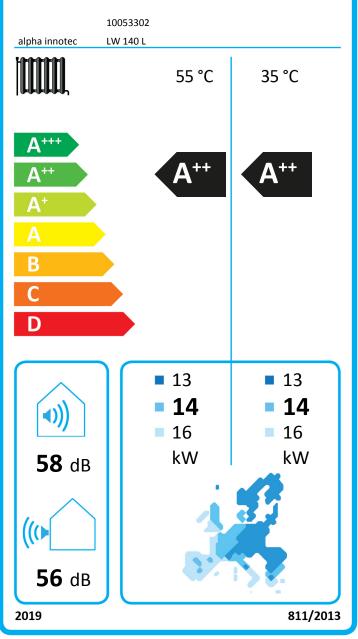
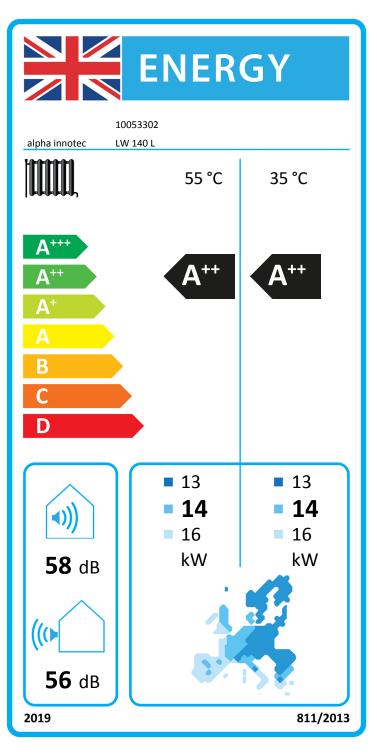


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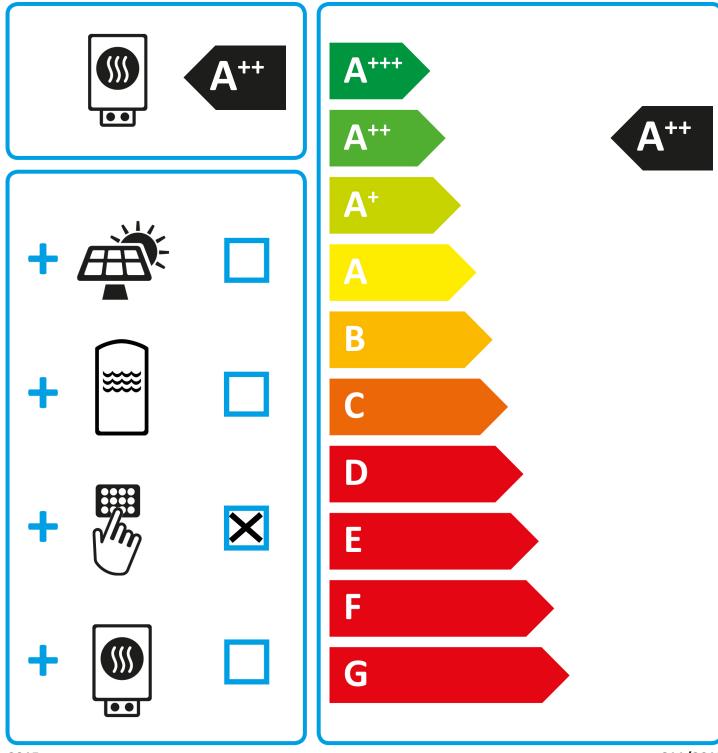


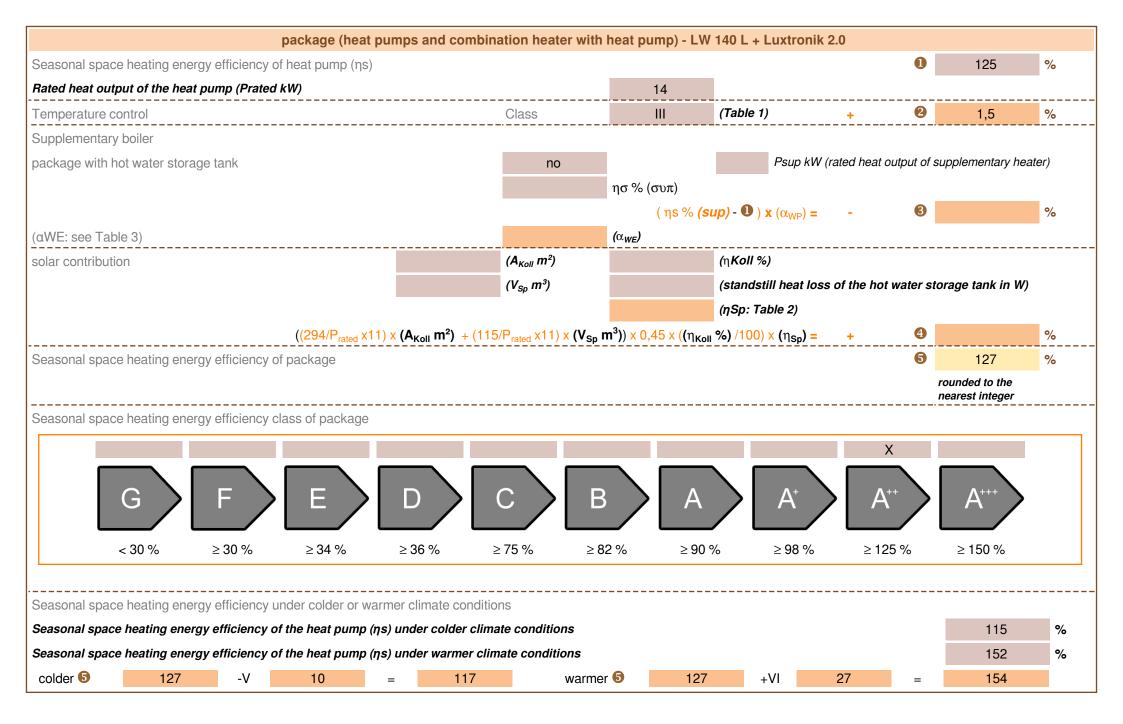


10053302

alpha innotec

LW 140 L + Luxtronik 2.0





manufacturer:	alpha innotec			
model:	LW 140 L	-		
Information concerning energy efficiency class a	ind 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	
sound power level indoors		58	dB	
sound power level indoors special precautions concerning assembly, instal All instructional work in this manual may only be carrie regulations.			I	
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special precautions concerning assembly, instal All instructional work in this manual may only be carrie regulations. additional information rated heat output colder climate	d out by qualified specialist persor	mel in compliance with loca medium 13	al kW	
special precautions concerning assembly, instal All instructional work in this manual may only be carrie regulations. additional information rated heat output colder climate rated heat output warmer climate	d out by qualified specialist persor	medium 13 16	al kW kW	
special precautions concerning assembly, instal All instructional work in this manual may only be carrie regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	d out by qualified specialist persor low 13 16 140 190	medium 13 16 115	al kW kW %	

technical data of the temperature controller						
manufacturer:	alpha innotec					
model:	Luxtronik 2.0					
controller class						
contribution of the controller to the energy efficiency space h	ater 1,5 %	, o				

Madal				LW 140 L				
Model			LW 140 L					
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)				medium				
climate: (colder/average/warmer)	1			average				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	14	kW	Seasonal space heating energy efficiency	ηS	125,1	%	
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor	
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°C	Pdh	14,4	kW	Tj = +7°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	COPd	1,96	-	
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 that	n active mod	e	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	Р _{ск}	-	kW					
Other items					1			
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5.600	m³/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	-	-	m³/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		land GmbH Ir		95359 Kasendorf Germany				
Pdesignh, and the rated heat out	put of a sup	plementary he	eater Psup is	the rated heat output Prated is equ equal to the supplementary capac			eating	
(**) If Cdh is not determined by m	leasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.				

	Model				LW 140 L			
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 outdoo			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 _{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	s other than	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	ı	electrical	<u>.</u>	
Standby mode	P _{SB}	0,010	kW					
Crankcase heater mode	Рск	-	kW					
Other items					•			
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5.600	m³/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	-	kWh	
Daily electricity consumption	-			95359 Kasendorf Germany	• •			