

100750LUXP02

alpha innotec

LWP 450-LUX



55 °C

35 °C

 A^+

38

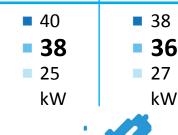
kW



dB



63 dB





2019

811/2013



100750LUXP02

alpha innotec

LWP 450-LUX



55 °C

35°C

A+++

Λ++

 Δ^+

Α

В

L

 A^{+}

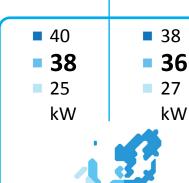
 A^{+}



dB



63 dB



2019

811/2013



IJA ENERG енергия · ενεργεια

100750LUXP02

alpha innotec

LWP 450-LUX + Luxtronik 2.1-P

















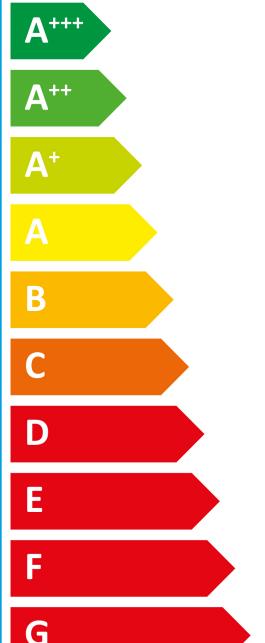




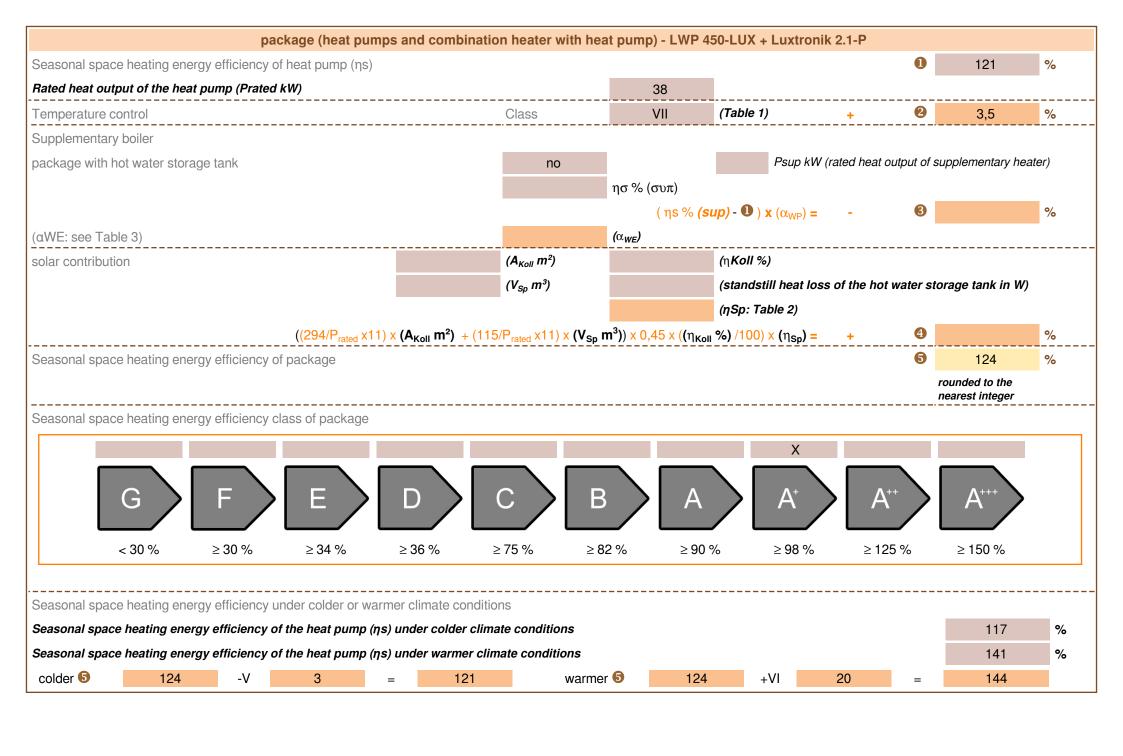








2015



heatpump datasheet:				
manufacturer:	alpha innotec LWP 450-LUX			
model:				
	•			
Information concerning energy efficiency class and ra	ted heat output:			
	average / low	average / medium		
energy efficiency class space heater:	A+	A+	-	
rated heat output:	36	38	kW	
energy efficiency space heater:	147	121	%	
annual final energy consumption space heater	19924	25529	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	
	1 1		1	
additional information	low	medium	1.347	
rated heat output colder climate	38	40	kW	
rated heat output warmer climate	27	25	kW	
energy effiency space heater colder climate	139	117	%	
energy effiency space heater warmer climate	164	141	%	
annual energy consumption space heater colder climate	26449	32793	kWh	
annual energy consumption space heater warmer climate	8710	9296	kWh	
		- -		
sound power level outdoors		63	dB	

technical data of the temperature controller						
manufacturer:	alpha innotec					
model:	Luxtronik 2.1-P					
controller class	VII	-				
contribution of the controller to the energy efficiency space heater	3,5	%				

Model			LWP 450-LUX				
Air-to-water heat pump: (yes/no)			yes	yes			
Brine-to-water heat pump: (yes/no)			no	no			
Water-to-water heat pump: (yes/no)			no	no			
Low-temperature heat pump: (yes/no)			no				
Equipped with supplementary heater: (yes/no)			no				
combination heater with: (yes/no)			no				
application: (low/medium)			medium				
climate: (colder/average/warmer)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	38	kW	Seasonal space heating energy efficiency	ηS	120,7	%
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	40,4	kW	Tj = -7°C	COPd	2,28	-
Tj = +2°C	Pdh	26,7	kW	Tj = +2°C	COPd	3,27	-
Tj = +7°C	Pdh	24,9	kW	Tj = +7°C	COPd	3,31	-
Tj = +12°C	Pdh	35,3	kW	Tj = +12°C	COPd	4,82	-
Tj = bivalent temperature	Pdh	38,2	kW	Tj = bivalent temperature	COPd	2,15	-
Tj = operation limit temperature	Pdh	38,2	kW	Tj = operation limit temperature	COPd	2,15	-
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}	-10	°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	65	°C
Power consumption in modes	other thai	n active mod	e	Supplementary heater	•	•	•
Off mode	P _{OFF}	0,107	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,122	kW	Type of energy input		electrical	
Standby mode	P_{SB}	0,107	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	9.000	m ³ /h
sound power level, indoors/outdoors	L _{WA}	- / 63	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		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		•					

Model			LWP 450-LUX				
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)			no				
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	36	kW	Seasonal space heating energy efficiency	ηS	146,7	%
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			
Tj = -7°C	Pdh	39,3	kW	Tj = -7°C	COPd	2,97	-
Tj = +2°C	Pdh	24,8	kW	Tj = +2°C	COPd	3,72	-
Tj = +7°C	Pdh	28,4	kW	Tj = +7°C	COPd	4,49	-
Tj = +12°C	Pdh	36,6	kW	Tj = +12°C	COPd	5,74	-
Tj = bivalent temperature	Pdh	36,1	kW	Tj = bivalent temperature	COPd	2,81	-
Tj = operation limit temperature	Pdh	36,1	kW	Tj = operation limit temperature	COPd	2,81	-
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}	-10	°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	65	°C
Power consumption in modes	other thai	n active mod	e	Supplementary heater			<u>.</u>
Off mode	P _{OFF}	0,107	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,122	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,107	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	9.000	m ³ /h
sound power level, indoors/outdoors	L _{WA}	- / 63	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		-					