



ENERG Y UA EHEDFUR EVERYEIG IE IA

100750LUXP02

alpha innotec LWP 450-LUX + Luxtronik 2.1-P



















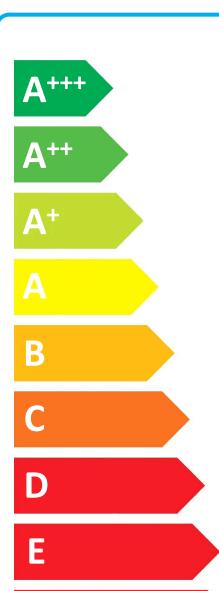






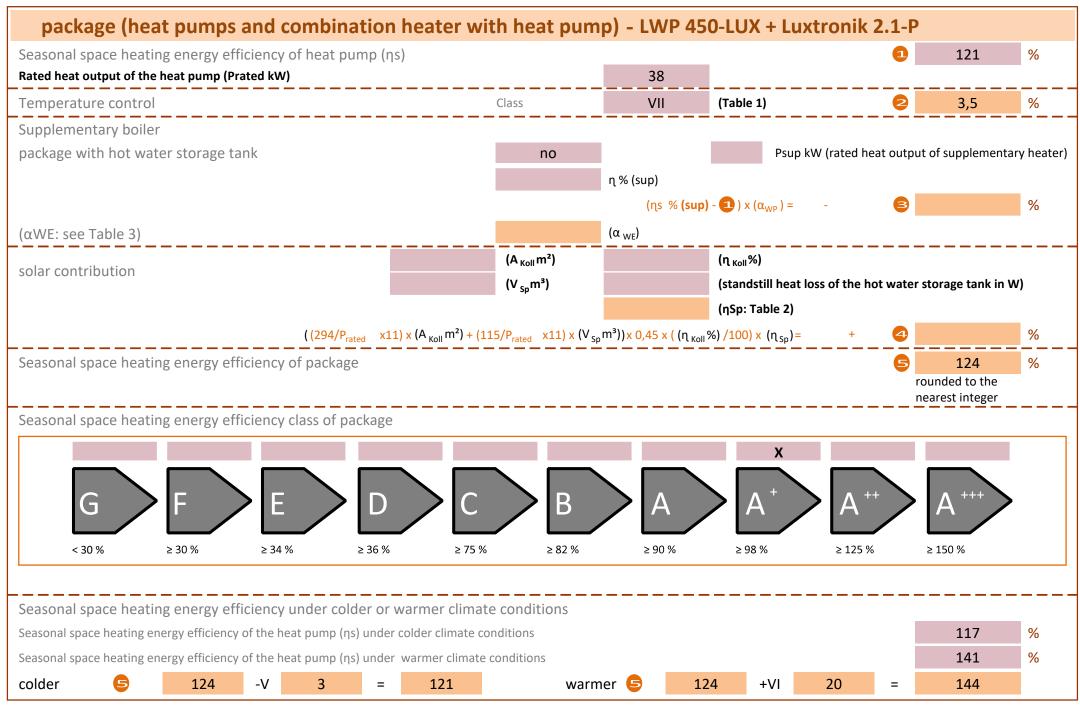








2015



manufacturer:	alpha innotec			
model:	LWP 450-LUX			
Information concerning energy efficiency class and rated 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	kWł	
special precautions concerning assembly, installation or maintenance				
All instructional work in this manual may only be carried out by qualified	specialist personnel in o	compliance with local		
All instructional work in this manual may only be carried out by qualified regulations.	specialist personnel in o	compliance with local		
	specialist personnel in o	compliance with local		
	specialist personnel in o	compliance with local medium		
regulations.		·	kW	
regulations. additional information	low	medium	kW kW	
additional information rated heat output under colder climate conditions	low 38	medium 40	kW kW	
regulations. additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions	low 38 27	medium 40 25	kW	
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions energy effiency space heater under colder climate conditions	low 38 27 139	medium 40 25 117	kW %	
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions energy effiency space heater under colder climate conditions energy effiency space heater under warmer climate conditions	low 38 27 139 164	medium 40 25 117 141	kW % % kWl	
additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions energy effiency space heater under colder climate conditions energy effiency space heater under warmer climate conditions energy consumption space heater under colder climate conditions	low 38 27 139 164 26449	medium 40 25 117 141 32793	kW %	

ErP-Produktdatenblatt1_RHG

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	%				

ErP-Produktdatenblatt2_RHG

Model			LWP 450-LUX				
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)			no			
combination heater with				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 performance for part load at indoor temperature 20°C and outdoor temperature Tj				
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 than active mode			Supplementary heater				
Off mode	P _{OFF}	0,107	kW	Rated heat output	Psup	0	kW
Thermostat-off mode	P_{TO}	0,122	kW				
Standby mode	P _{SB}	0,107	kW	Type of energy input	electrical		
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors		9000	m³/h
sound power level, indoors/outdoors	L wa	-/63	dB	For water-/brine-to-water heat pumps: brine or water flow rate, outdoor heat	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		m³/h
Emissions of nitrogen oxides	NO x	-	mg/ kWh	exchanger			
For heat pump combination heater:		-	<u> </u>	•		-	
Declared load profile		_		Water heating energy efficiency	η _{wh}	_	%
Daily electricity consumption	Q _{elec}		kWh	Daily fuel consumption	Q _{fuel}	0	kWh
Contact details		ait deut		GmbH Industriestr. 3 95359 Kasendorf Ge		<u> </u>	1
				is equal to the design load for heating Pdesignh, and the rated		a supplementa	ry
(**) If Cdh is not determined by measurement the	en the default	t degradatior	n coefficiei	nt is Cdh = 0,9.			

Madel				LIMP 450 LUV				
Model Air-to-vater heat pump; (vec/po)			LWP 450-LUX					
Air-to-water heat pump: (yes/no) Brine-to-water heat pump: (yes/no)			yes					
Water-to-water heat pump: (yes/no)			no					
Low-temperature heat pump: (yes/no)			no					
Equipped with supplementary heater: (yes/no)			no no					
combination heater with			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	1 -	
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	-	Heating water operating limit temperature	WTOL	65	°C	
Power consumption in modes other than active mode			Supplementary heater					
Off mode	P _{OFF}	0,107	kW	Rated heat output	Psup	0	kW	
Thermostat-off mode	P_{TO}	0,122	kW					
Standby mode	P _{SB}	0,107	kW	Type of energy input	electrical			
Crankcase heater mode	P _{CK}	0,000	kW					
Other items								
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors		9000	m³/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			m³/h	
Emissions of nitrogen oxides NO		mg/ - kWh		exchanger				
For heat pump combination heater:		<u> </u>	i vaali	1 1		<u>I</u>		
				Water heating energy efficiency				
Declared load profile		<u>-</u>		vvater meaning energy efficiency	$\eta_{\text{ wh}}$	-	%	
Daily electricity consumption	Qelec		kWh	Daily fuel consumption	Q _{fuel}	-	kWh	
Contact details	Contact details ait deutschland GmbH				GmbH Industriestr. 3 95359 Kasendorf Germany			
(*) For heat pump space heaters and heat pump combina heater Psup is equal to the supplementary capacity for he (**) If Cdh is not determined by measurement the	ating s			d is equal to the design load for heating Pdesignh, and the rate \cot is Cdh = 0,9.	ed heat output		ntary	