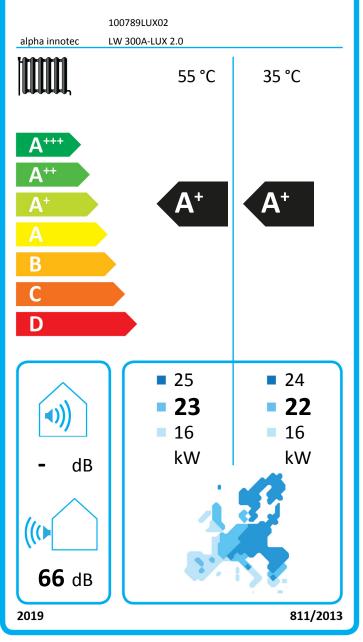
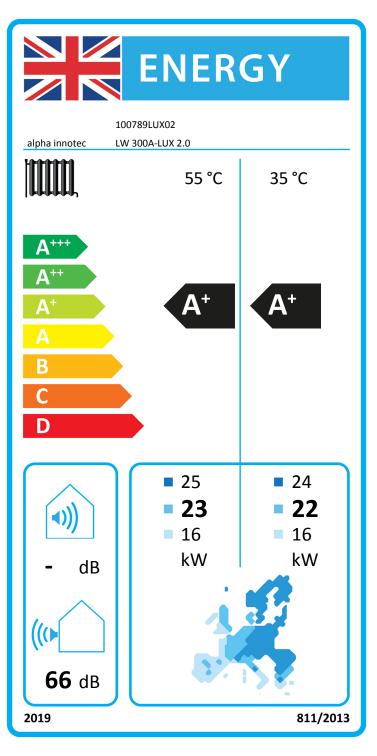


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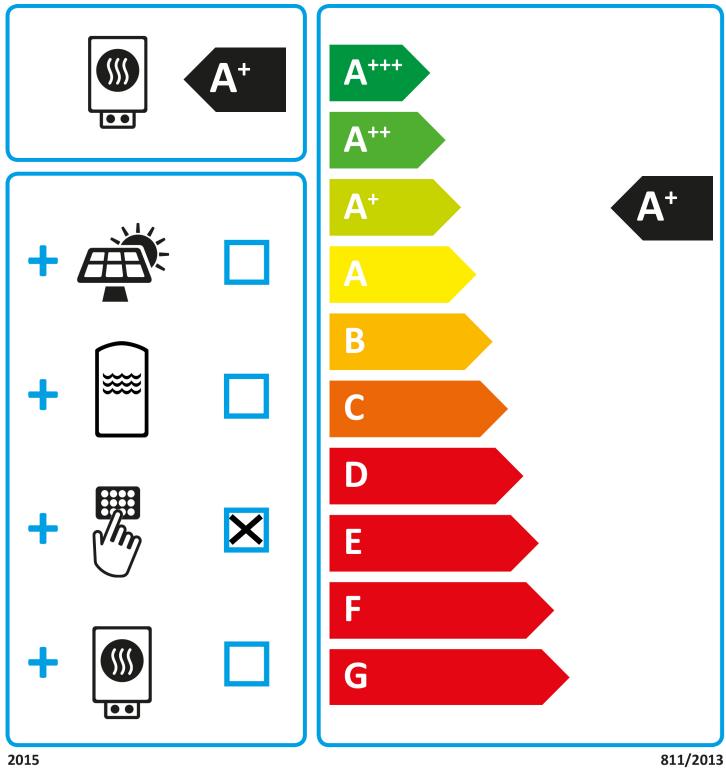


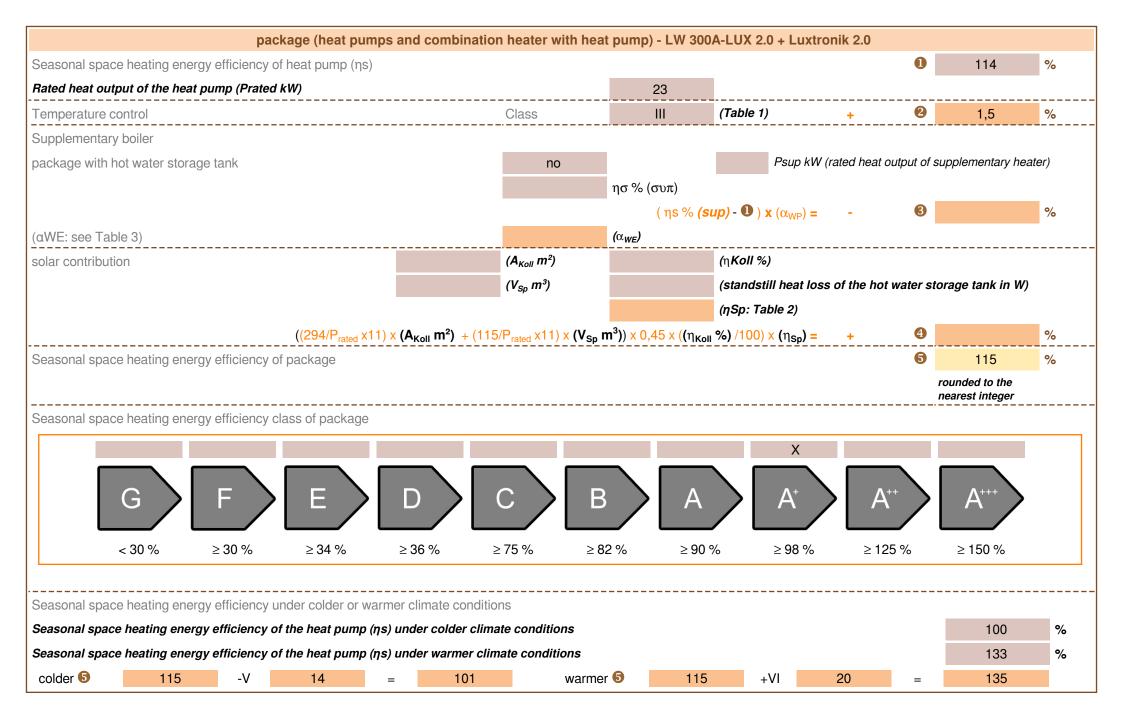


100789LUX02

alpha innotec

LW 300A-LUX 2.0 + Luxtronik 2.0





heatpump datasheet:	
manufacturer:	alpha innotec
model:	LW 300A-LUX 2.0

Information concerning energy efficiency class and rated heat output:

	average / low	average / medium	
energy efficiency class space heater:	A+	A+	-
rated heat output:	22	23	kW
energy efficiency space heater:	138	114	%
annual final energy consumption space heater	12861	16314	kWh

dB

-

sound power level indoors

special precautions concerning assembly, installation or maintenance

All instructional work in this manual may only be carried out by qualified specialist personnel in compliance with local regulations.

additional information	low	medium	
rated heat output colder climate	24	25	kW
rated heat output warmer climate	16	16	kW
energy effiency space heater colder climate	125	100	%
energy effiency space heater warmer climate	166	133	%
annual energy consumption space heater colder climate	18202	23747	kWh
annual energy consumption space heater warmer climate	5177	6306	kWh
sound power level outdoors		66	dB

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			

Model			LW 300A-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)			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	23	kW	Seasonal space heating energy efficiency	ηS	113,6	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoo			ndoor
Tj = -7°C	Pdh	20,4	kW	Tj = -7°C	COPd	1,99	-
Tj = +2°C	Pdh	16,4	kW	Tj = +2°C	COPd	2,94	-
Tj = +7°C	Pdh	18,4	kW	Tj = +7°C	COPd	3,51	-
Tj = +12°C	Pdh	23,5	kW	Tj = +12°C	COPd	4,72	-
Tj = bivalent temperature	Pdh	23,0	kW	Tj = bivalent temperature	COPd	1,78	-
Tj = operation limit temperature	Pdh	23,0	kW	Tj = operation limit temperature	COPd	1,78	-
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	60	°C
Power consumption in modes	other that	n active mod	le	Supplementary heater			
Off mode	P _{OFF}	0,038	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,024	kW	Type of energy input		electrical	1
Standby mode	P _{SB}	0,038	kW				
Crankcase heater mode	Рск	-	kW	-			
Other items			1		1		
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6.000	m³/h
sound power level, indoors/outdoors	L _{WA}	- / 66	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			
	and heat pu	imp combinat	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m	neasuremen	t then the def	ault degrada	tion coefficient is Cdh = 0,9.			

Model				LW 300A-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)			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	22	kW	Seasonal space heating energy efficiency	ηS	138,0	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoo			ndoor
Tj = -7°C	Pdh	19,4	kW	Tj = -7°C	COPd	2,65	-
Tj = +2°C	Pdh	16,4	kW	Tj = +2°C	COPd	3,59	-
Tj = +7°C	Pdh	18,0	kW	Tj = +7°C	COPd	4,05	-
Tj = +12°C	Pdh	23,0	kW	Tj = +12°C	COPd	5,28	-
Tj = bivalent temperature	Pdh	22,0	kW	Tj = bivalent temperature	COPd	2,45	-
Tj = operation limit temperature	Pdh	22,0	kW	Tj = operation limit temperature	COPd	2,45	-
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	60	°C
Power consumption in modes	other than	n active mod	le	Supplementary heater			<u>.</u>
Off mode	P _{OFF}	0,038	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,024	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,038	kW				
Crankcase heater mode	Р _{ск}	-	kW	-			
Other items			•		•		
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6.000	m³/h
sound power level, indoors/outdoors	L _{WA}	- / 66	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		<u> </u>		-
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			•
	and heat pu	imp combinat	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m	neasuremen	t then the def	ault degrada	tion coefficient is Cdh = 0,9.			