

10078702

alpha innotec

LW 300



55 °C

35 °C

A+++

Λ++

 $\mathbf{A}^{+}$ 

Λ

B

C

 $A^+$ 

 $A^+$ 



**66** dB



**55** dB

2523

■ 16 kW **2**4

**22** 

kW



2019

811/2013



10078702

alpha innotec

LW 300



55 °C

35 °C



**Λ** ++

Δ+

Λ

B

C

A<sup>+</sup>

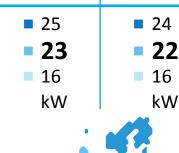
 $A^{+}$ 



**66** dB



**55** dB





2019

811/2013



## ENERG IJA енергия · ενεργεια

10078702

alpha innotec

LW 300 + Luxtronik 2.0































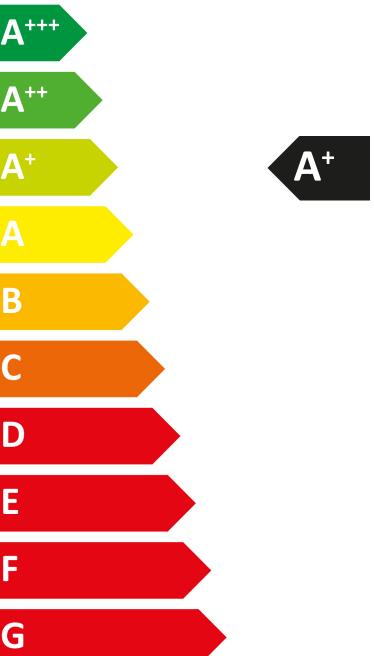


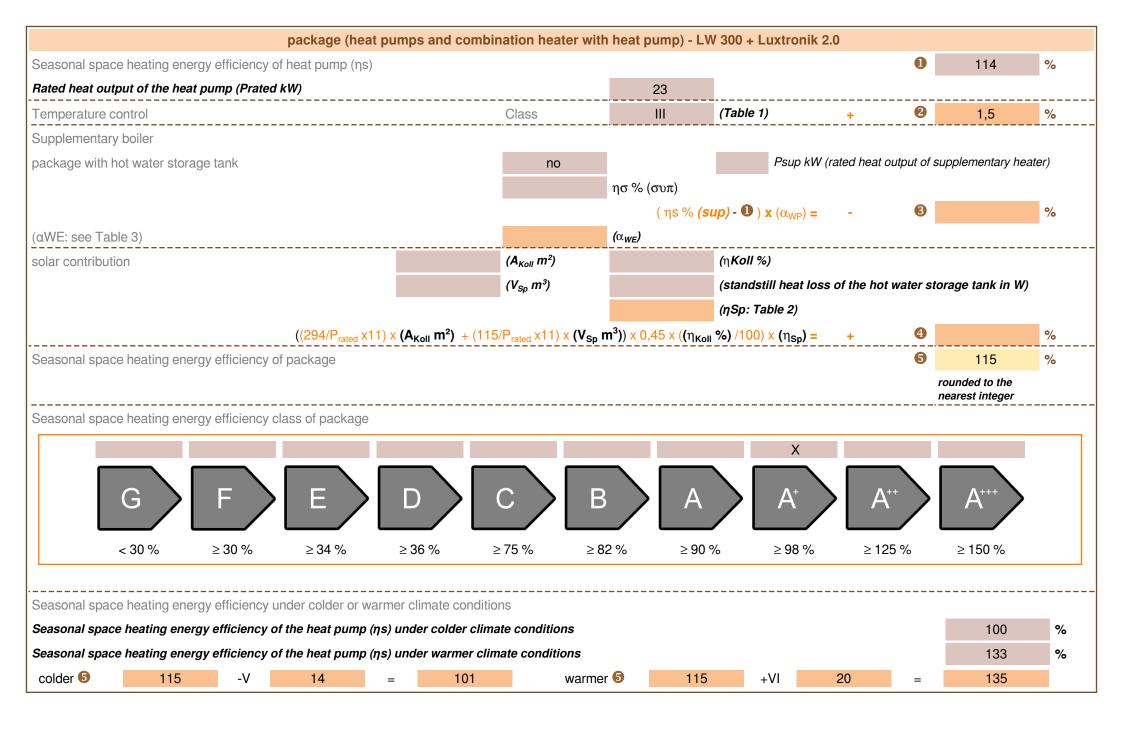












heatpump datasheet:						
manufacturer:	alpha innotec					
model:	LW 300					
Information concerning energy efficiency class	s and rated heat output:					
	·					
	average / low	average / medium				
energy efficiency class space heater:	A+	A+	-			
rated heat output:	22	23	kW			
energy efficiency space heater:	138	114	%			
annual final energy consumption space heater	12861	16314	kWh			
	•	•	•			
sound power level indoors		66	dB			
regulations.						
additional information	low	medium				
additional information rated heat output colder climate	low 24	medium 25	kW			
rated heat output colder climate	24	25	kW			
rated heat output colder climate rated heat output warmer climate	24 16	25 16	kW			
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	24 16 125	25	<u> </u>			
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate	24 16 125 166	25 16 100 133	kW % %			
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate annual energy consumption space heater colder climate	24 16 125 166 nate 18202	25 16 100 133 23747	kW % % kWh			
rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate	24 16 125 166 nate 18202	25 16 100 133	kW % %			

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	%				

Model			LW 300				
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)			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 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	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 <sub>biv</sub>	-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 thai	active mod	<u>.                                    </u>	Supplementary heater			•
Off mode	P <sub>OFF</sub>	0,038	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P <sub>TO</sub>	0,024	kW	Type of energy input		electrical	•
Standby mode	P <sub>SB</sub>	0,038	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6.000	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	66 / 55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh				
For heat pump combination h	eater:						
Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	ait deutsch	land GmbH Ir	dustriestr. 3	95359 Kasendorf Germany			
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m	easuremen	t then the defa	ault degradat	tion coefficient is Cdh = 0,9.			

Model				I W 200			
Model  Air to water heat numb: (vec/no)			LW 300				
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 law				
application: (low/medium)				low			
climate: (colder/average/warmer)		Value	Unit	average Item	Cumbal	Value	Unit
	Symbol				Symbol		
Rated heat output	Prated	22	kW	Seasonal space heating energy efficiency	ηS	138,0	%
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	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 <sub>biv</sub>	-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 tha	n active mod	e	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,038	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P <sub>TO</sub>	0,024	kW	Type of energy input		electrical	
Standby mode	P <sub>SB</sub>	0,038	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
Other items	•	•			•		
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6.000	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	66 / 55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh		•	-	-
For heat pump combination h	eater:	•	•				
Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany	•		
				the rated heat output Prated is equesternated is equesternated to the supplementary capac			eating
(**) If Cdh is not determined by m		-			-		
· · · · · · · · · · · · · · · · · · ·	•			· · · · · · · · · · · · · · · · · · ·			