

10053402

alpha innotec

LW 180



55 °C

35 °C

A+++

Λ ++

Δ+

Λ

B

L

A⁺





59 dB



54 dB

151916

kW

1720

17 kW



2019

811/2013



10053402

alpha innotec

LW 180



55 °C

35 °C

Δ+++

Λ ++

 \mathbf{A}^{+}

Δ

R

A⁺

A⁺⁺

59 dB



54 dB

15
19
20
16
kW
kW





IJA ENERG енергия · ενεργεια

10053402

alpha innotec

LW 180 + Luxtronik 2.0



















2015





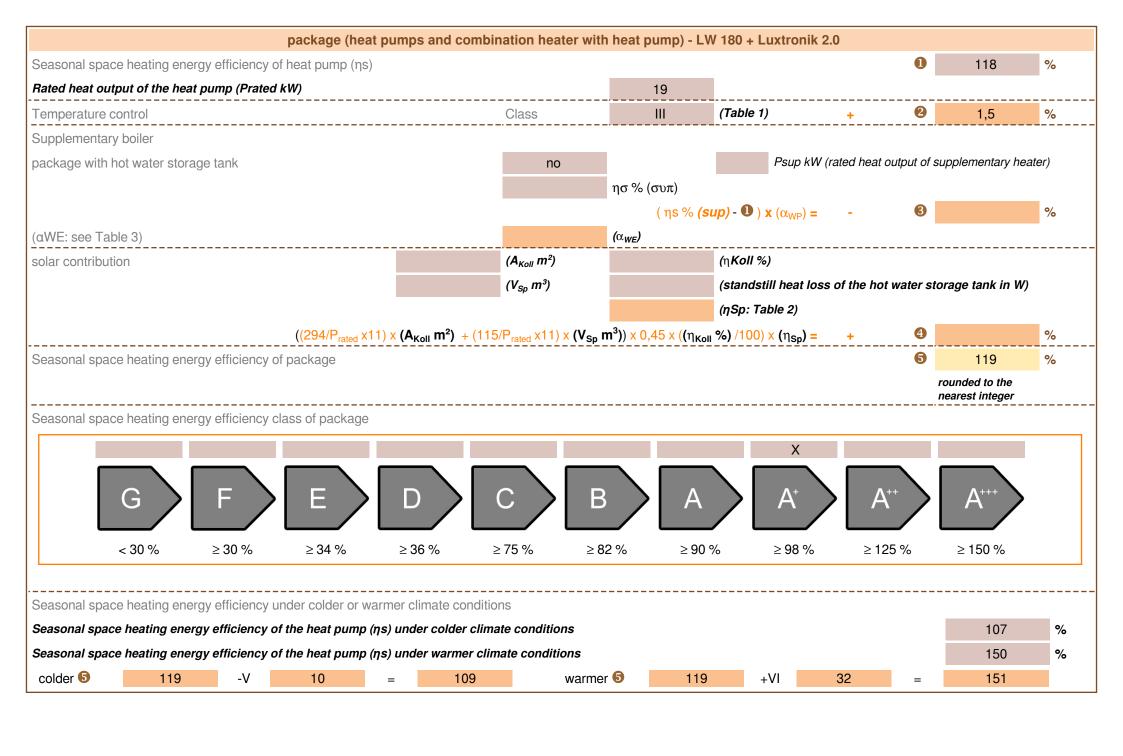


B

E



811/2013



heatpump datasheet:					
manufacturer:	alpha innotec				
model:	LW 180				
	1=11.00				
Information concerning energy efficiency class and ra	ated heat output:				
	<u> </u>				
	average / low	average / medium			
energy efficiency class space heater:	A++	A+	-		
rated heat output:	20	19	kW		
energy efficiency space heater:	158	118	%		
annual final energy consumption space heater	10262	12643	kWh		
	•		•		
sound power level indoors		59	dB		
			•		
special precautions concerning assembly, installation	n or maintenance				
All instructional work in this manual may only be carried out regulations.	z) quamou opoulaior poroci		•		
			_		
additional information	low	medium			
rated heat output colder climate	17	15	kW		
rated heat output warmer climate	17	16	kW		
energy effiency space heater colder climate	139	107	%		
energy effiency space heater warmer climate	200	150	%		
annual energy consumption space heater colder climate	12110	13578	1.34/1-		
annual energy consumption space heater warmer climate	4546		kWh		
		5671	kWh		
		5671	_		

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 heater		1,5	%			

B. B. C. J. C. L.				II.W 400			
			LW 180				
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)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	19	kW	Seasonal space heating energy efficiency	ηS	117,9	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	12,8	kW	Tj = -7°C	COPd	1,94	-
Tj = +2°C	Pdh	16,9	kW	Tj = +2°C	COPd	2,93	-
Tj = +7°C	Pdh	10,1	kW	Tj = +7°C	COPd	4,21	-
Tj = +12°C	Pdh	12,9	kW	Tj = +12°C	COPd	5,39	-
Tj = bivalent temperature	Pdh	14,2	kW	Tj = bivalent temperature	COPd	2,23	-
Tj = operation limit temperature	Pdh	11,3	kW	Tj = operation limit temperature	COPd	1,68	-
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}	-4	°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 _{OFF}	0,010	kW	Rated heat output	Psup	7,2	kW
Thermostat-off mode	P _{TO}	0,010	kW	Type of energy input		electrical	· L
Standby mode	P _{SB}	0,010	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items	•	•			•		
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5.600	m ³ /h
sound power level, indoors/outdoors	L _{WA}	59 / 54	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		-					
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88 - 4 - 1				II.W 400			
				LW 180			
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)		i		average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	20	kW	Seasonal space heating energy efficiency	ηS	158,3	%
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			indoor	
Tj = -7°C	Pdh	14,3	kW	Tj = -7°C	COPd	2,94	-
Tj = +2°C	Pdh	17,5	kW	Tj = +2°C	COPd	3,94	-
Tj = +7°C	Pdh	10,1	kW	Tj = +7°C	COPd	5,38	-
Tj = +12°C	Pdh	12,9	kW	Tj = +12°C	COPd	5,96	-
Tj = bivalent temperature	Pdh	15,4	kW	Tj = bivalent temperature	COPd	3,30	-
Tj = operation limit temperature	Pdh	13,2	kW	Tj = operation limit temperature	COPd	2,65	-
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}	-4	°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 _{OFF}	0,010	kW	Rated heat output	Psup	6,9	kW
Thermostat-off mode	P _{TO}	0,010	kW	Type of energy input		electrical	1
Standby mode	P _{SB}	0,010	kW				
Crankcase heater mode	P _{CK}	-	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}	59 / 54	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		-			-	,,,	
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