

100601HMD02

alpha innotec

LWD 50A-HMD



55 °C

35 °C



Δ++

 A^+

Α

B



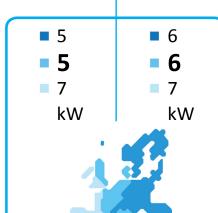




44 dB



57 dB



2019

811/2013



100601HMD02

alpha innotec

LWD 50A-HMD



55 °C

35 °C



Λ++

Δ+

Δ

R

L

П



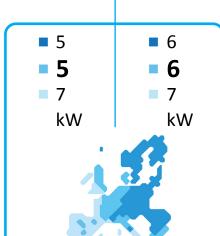




44 dB



57 dB



2019

811/2013



IJA ENERG енергия · ενεργεια

100601HMD02

alpha innotec

LWD 50A-HMD + Luxtronik 2.1

























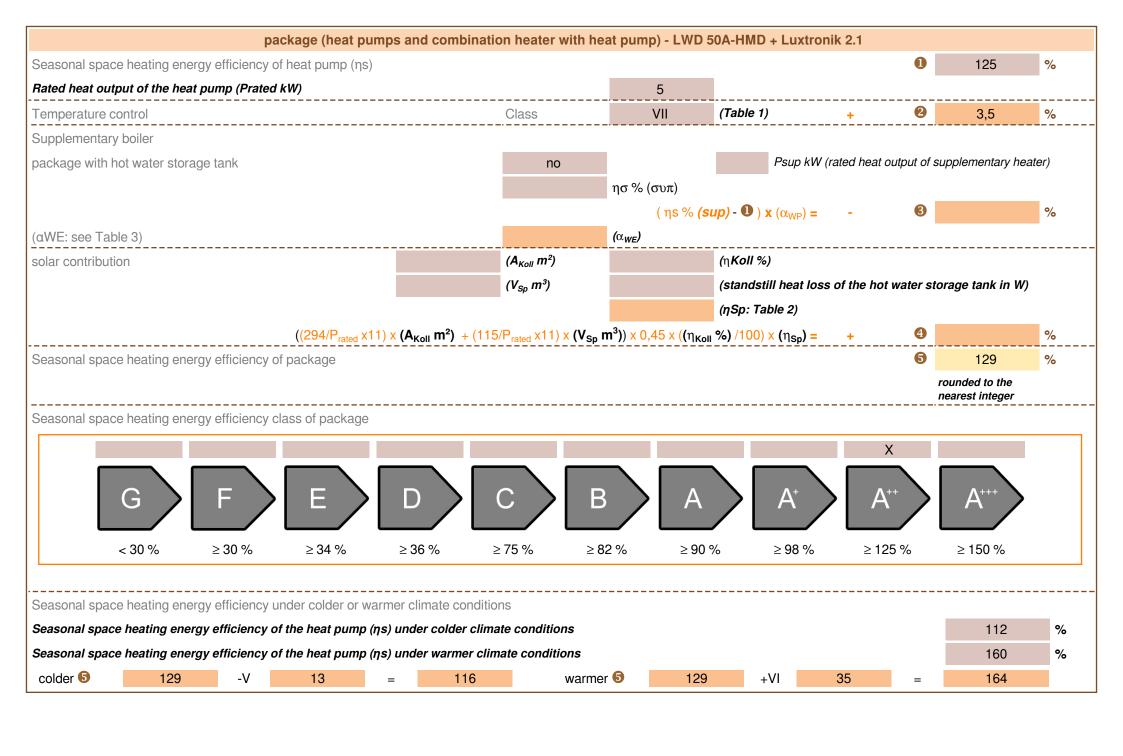


B









heatpump datasheet:				
	1			
manufacturer:	alpha innotec			
model:	nodel: LWD 50A-HMD			
Information concerning energy efficiency class and rat	ed heat output:			
	Overage / low	overage / modium	T	
anarqu officianay alaga anaga haatay	average / low	average / medium		
energy efficiency class space heater:	A++	A++	-	
rated heat output:	6	5	kW	
energy efficiency space heater:	163	125	%	
annual final energy consumption space heater	2989	3491	kWh	
			1	
sound power level indoors		44	dB	
regulations.				
	1			
additional information	low	medium	1.34/	
rated heat output colder climate	6	5	kW	
rated heat output warmer climate	7	7	kW	
energy effiency space heater colder climate	147 112		%	
energy effiency space heater warmer climate	198	160	%	
annual energy consumption space heater colder climate	3661	4169	kWh	
annual energy consumption space heater warmer climate	1937	2217	kWh	
			_	
sound power level outdoors		57	dB	

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

yes no no no yes no medium average Item Seasonal space heating energy efficiency Declared coefficient of perfor temperature 20°C and outdood Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps: Operation limit temperature			Unit % indoor
no no yes no medium average Item Seasonal space heating energy efficiency Declared coefficient of perfor temperature 20°C and outdoo Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	125,1 part load at ture Tj 1,99 3,18 4,65 5,97 2,24 1,74	% indoor - - -
no yes no medium average Item Seasonal space heating energy efficiency Declared coefficient of perfor temperature 20°C and outdoo Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	125,1 part load at ture Tj 1,99 3,18 4,65 5,97 2,24 1,74	% indoor - - -
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no medium average Item Seasonal space heating energy efficiency Declared coefficient of perfor temperature 20°C and outdoo Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	125,1 part load at ture Tj 1,99 3,18 4,65 5,97 2,24 1,74	% indoor - - -
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average Item Seasonal space heating energy efficiency Declared coefficient of perfor temperature 20°C and outdood Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	125,1 part load at ture Tj 1,99 3,18 4,65 5,97 2,24 1,74	% indoor - - -
Item Seasonal space heating energy efficiency Declared coefficient of perfor temperature 20°C and outdood Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	125,1 part load at ture Tj 1,99 3,18 4,65 5,97 2,24 1,74	% indoor - - -
Seasonal space heating energy efficiency Declared coefficient of perfor temperature 20°C and outdood Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	ηS mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	125,1 part load at ture Tj 1,99 3,18 4,65 5,97 2,24 1,74	% indoor - - -
energy efficiency Declared coefficient of perfor temperature 20°C and outdood Tj = -7°C Tj = +2°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	mance for temperate COPd COPd COPd COPd COPd COPd COPd COPd	part load at ture Tj 1,99 3,18 4,65 5,97 2,24 1,74	indoor
temperature 20°C and outdoor Tj = -7°C Tj = +2°C Tj = +7°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	COPd COPd COPd COPd COPd COPd COPd COPd	1,99 3,18 4,65 5,97 2,24 1,74	- - -
Tj = +2°C Tj = +7°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	COPd COPd COPd COPd COPd	3,18 4,65 5,97 2,24 1,74	
Tj = +7°C Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	COPd COPd COPd COPd COPd	4,65 5,97 2,24 1,74	
Tj = +12°C Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	COPd COPd COPd	5,97 2,24 1,74	- - - -
Tj = bivalent temperature Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	COPd COPd COPd	2,24 1,74	- - -
Tj = operation limit temperature For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	COPd COPd	1,74	
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps:	COPd		-
= -15°C (if TOL < -20°C) For air-to-water heat pumps:		-	-
1 1	TOI		
1 1	101	-10	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	62	°C
Supplementary heater	•		•
Rated heat output	Psup	1,8	kW
Type of energy input		electrical	
Ī			
Π			
	•		
For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.000	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
			•
•			
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
<u> </u>			
,	temperature Supplementary heater Rated heat output Type of energy input For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency Daily fuel consumption 95359 Kasendorf Germany the rated heat output Prated is equ	temperature Supplementary heater Rated heat output Psup Type of energy input For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency \$\eta_{wh}\$ Daily fuel consumption Qfuel 95359 Kasendorf Germany The rated heat output Prated is equal to the desis equal to the supplementary capacity for heating	temperature Supplementary heater Rated heat output Psup 1,8 Type of energy input electrical For air-to-water heat pumps: - 3.000 Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency η _{wh} - Daily fuel consumption Qfuel - 3 95359 Kasendorf Germany the rated heat output Prated is equal to the design load for his equal to the supplementary capacity for heating sup(Tj).

Model			LWD 50A-HMD				
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 he	ater: (yes/no	0)		yes			
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	6	kW	Seasonal space heating energy efficiency	ηS	163,5	%
Declared coefficient of perfor temperature 20°C and outdoor			ndoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	4,7	kW	Tj = -7°C	COPd	3,27	-
Tj = +2°C	Pdh	5,6	kW	Tj = +2°C	COPd	4,20	-
Tj = +7°C	Pdh	7,2	kW	Tj = +7°C	COPd	5,29	-
Tj = +12°C	Pdh	8,0	kW	Tj = +12°C	COPd	6,14	-
Tj = bivalent temperature	Pdh	4,9	kW	Tj = bivalent temperature	COPd	3,51	-
Tj = operation limit temperature	Pdh	4,2	kW	Tj = operation limit temperature	COPd	2,96	-
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}	-5	°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	62	°C
Power consumption in modes	other thai	n active mod	<u>. </u>	Supplementary heater	•		
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	1,8	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,015	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.000	m ³ /h
sound power level, indoors/outdoors	L _{WA}	44 / 57	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	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		-					