

100601HTD02

alpha innotec

LWD 50A-HTD











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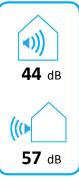
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2019

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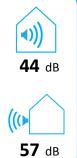
















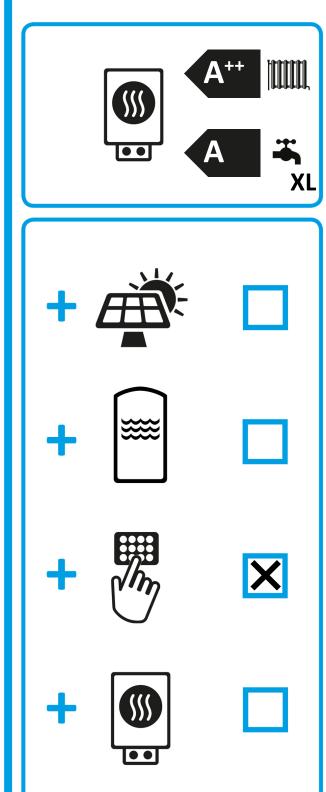


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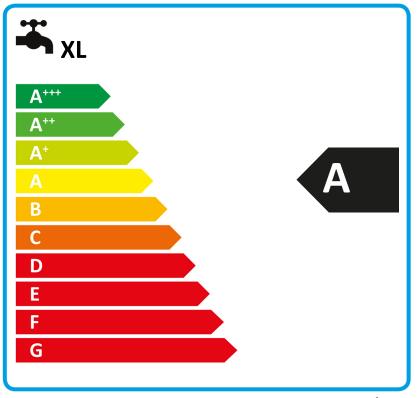
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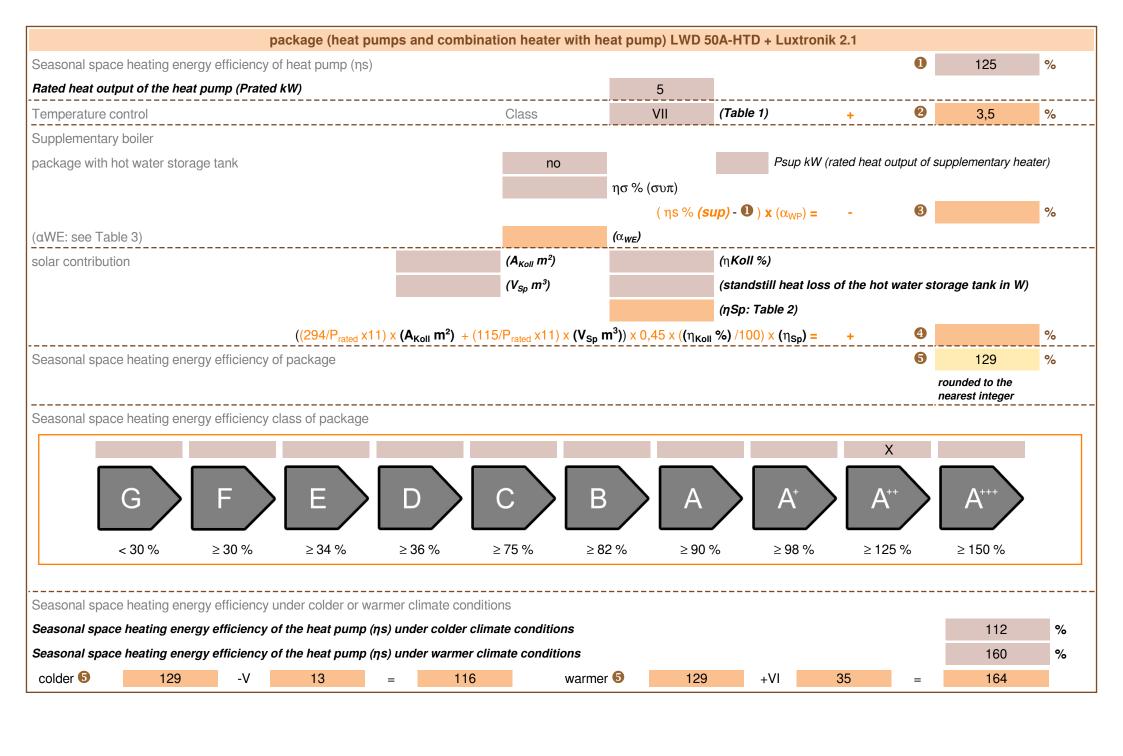
alpha innotec

LWD 50A-HTD + Luxtronik 2.1









heatpump datasheet:					
manufacturer:	alpha innotec				
model:	LWD 50A-HTD	LWD 50A-HTD			
	•				
Information concerning energy efficiency class and rated	heat output:				
load profile water heating	XL	-			
	•		•		
	average / low	average / medium			
energy efficiency class space heater:	A++	A++	-		
energy efficiency class waterheating		Ä	-		
rated heat output:	6	5	kW		
annual final energy consumption space heater	2989	3491	kWh		
annual electricity consumption waterheating	1872		kWh		
energy efficiency space heater:	163	125	%		
energy efficiency waterheating	89		%		
	•		•		
sound power level indoors		44	dB		
			•		
special precautions concerning assembly, installation or n	naintenance				
All instructional work in this manual may only be carried out by qu	ualified specialist personnel in co	ompliance with local regulations	S.		
additional information	low	medium			
rated heat output colder climate	6	5	kW		
rated heat output warmer climate	7	7	kW		
annual energy consumption space heater colder climate	3661	4169	kWh		
annual energy consumption space heater warmer climate	1937	2217	kWh		
ann. Electricity consumption waterheating colder climate	2048		kWh		
ann. Electricity consumption waterheating warmer climate	1625		kWh		
energy effiency space heater colder climate	147	112	%		
energy effiency space heater warmer climate	198	160	%		
energy efficiency waterheating colder climate	82		%		
energy efficiency DHWwarmer climate	103		%		
	•				
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	%			

Model				LWD 50A-HTD			
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)			yes				
application: (low/medium)			medium				
climate: (colder/average/warmer)	)			average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	5	kW	Seasonal space heating energy efficiency	ηS	125,1	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	4,0	kW	Tj = -7°C	COPd	1,99	-
Tj = +2°C	Pdh	5,4	kW	Tj = +2°C	COPd	3,18	-
Tj = +7°C	Pdh	7,1	kW	Tj = +7°C	COPd	4,65	-
Tj = +12°C	Pdh	7,9	kW	Tj = +12°C	COPd	5,97	-
Tj = bivalent temperature	Pdh	4,3	kW	Tj = bivalent temperature	COPd	2,24	-
Tj = operation limit temperature	Pdh	3,6	kW	Tj = operation limit temperature	COPd	1,74	-
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>	-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 than	active mod	e	Supplementary heater			•
Off mode	P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	1,8	kW
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	
Standby mode	P <sub>SB</sub>	0,015	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	-	3.000	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	44 / 57	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		XL		Water heating energy efficiency	$\eta_{wh}$	89	%
Daily electricity consumption	Q <sub>elec</sub>	8,525	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	ait deutsch	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	neasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.			
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Model			LWD 50A-HTD				
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)			yes				
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 performance for part load at indoor			Declared coefficient of perfor temperature 20°C and outdoor			ndoor	
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 <sub>biv</sub>	-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	e	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	1,8	kW
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	•
Standby mode	P <sub>SB</sub>	0,015	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	-	3.000	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	44 / 57	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 In	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 degrada	tion coefficient is Cdh = 0,9.			