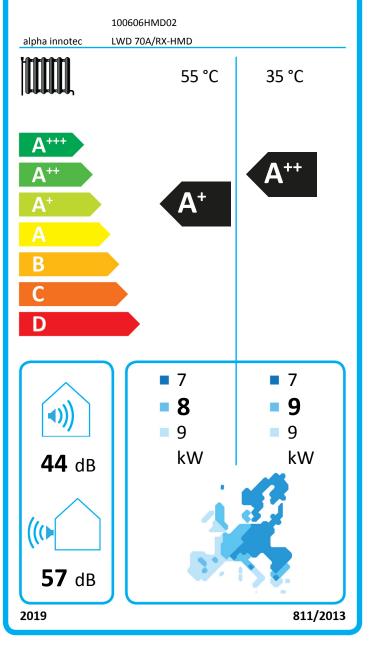
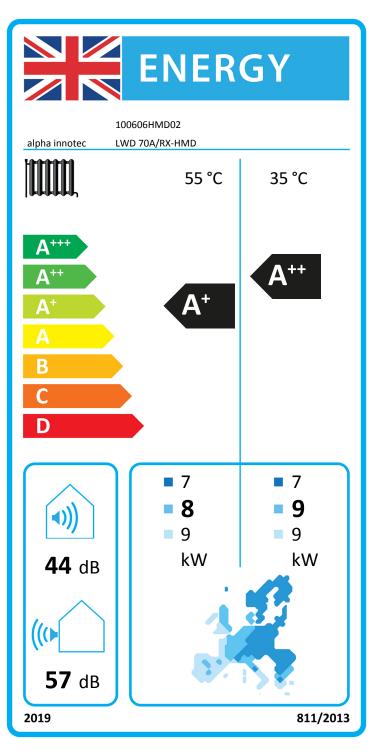


ЕNERG О ША енергия · ενεργεία (Ε) (А





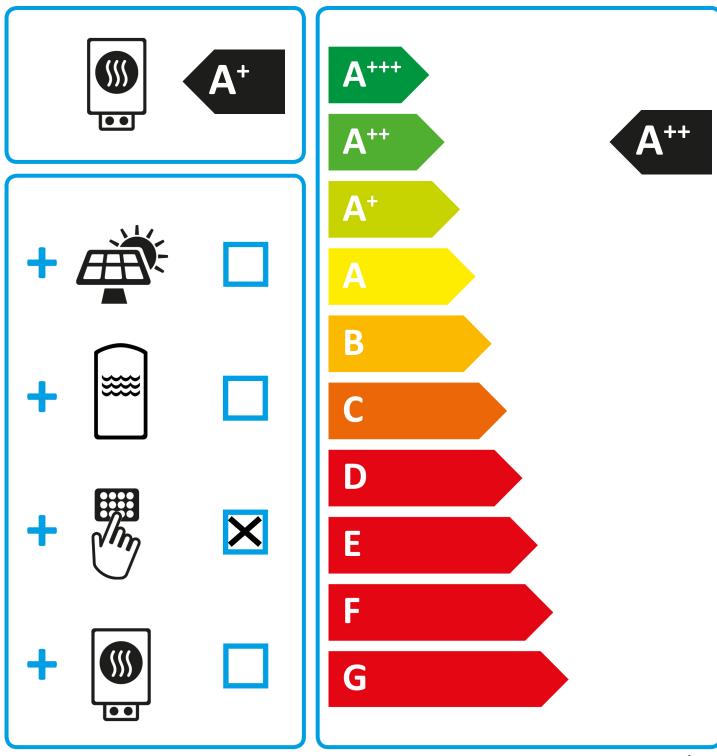


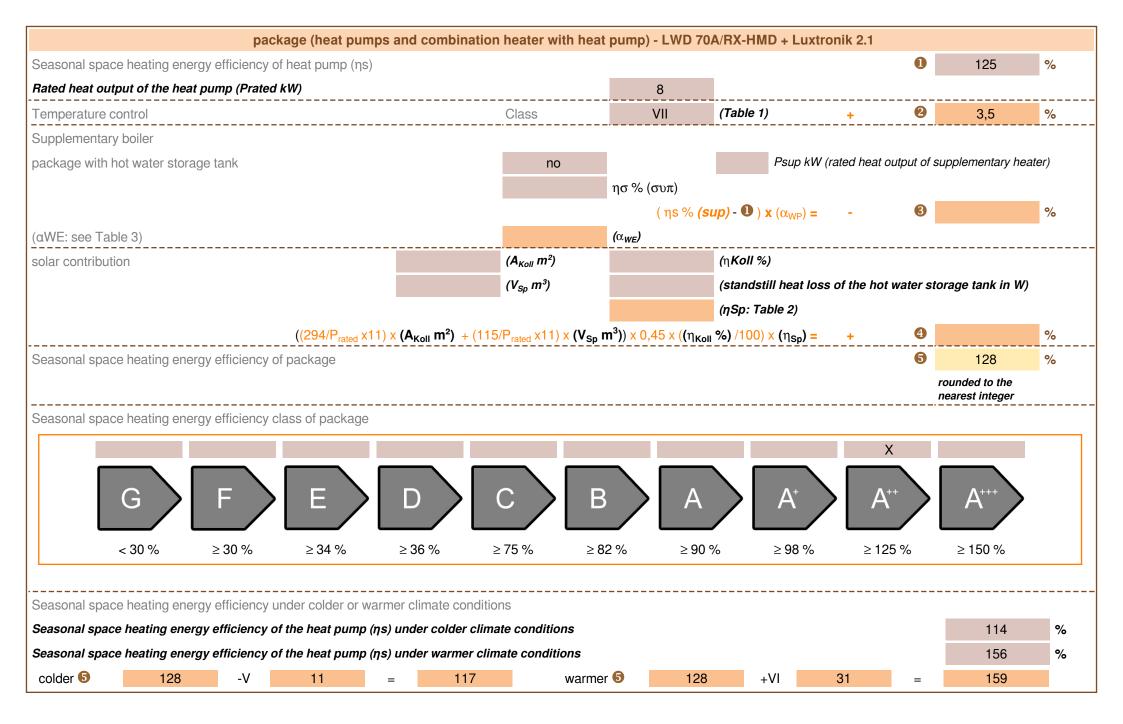


100606HMD02

alpha innotec

LWD 70A/RX-HMD + Luxtronik 2.1





heatpump datasheet:	
manufacturer:	alpha innotec
model:	LWD 70A/RX-HMD

Information concerning energy efficiency class and rated heat output:

	average / low	average / medium	
energy efficiency class space heater:	A++	A+	-
rated heat output:	9	8	kW
energy efficiency space heater:	152	125	%
annual final energy consumption space heater	4595	5117	kWh

44

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	7	7	kW
rated heat output warmer climate	9	9	kW
energy effiency space heater colder climate	136	114	%
energy effiency space heater warmer climate	185	156	%
annual energy consumption space heater colder climate	5124	5657	kWh
annual energy consumption space heater warmer climate	2626	2998	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	%				

Model				LWD 70A/RX-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	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	8	kW	Seasonal space heating energy efficiency	ηS	124,9	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of perfor temperature 20°C and outdoo			ndoor	
Tj = -7°C	Pdh	5,6	kW	Tj = -7°C	COPd	2,28	-	
Tj = +2°C	Pdh	7,1	kW	Tj = +2°C	COPd	3,18	-	
Tj = +7°C	Pdh	8,8	kW	Tj = +7°C	COPd	4,18	-	
Tj = +12°C	Pdh	10,3	kW	Tj = +12°C	COPd	5,43	-	
Tj = bivalent temperature	Pdh	6,1	kW	Tj = bivalent temperature	COPd	2,56	-	
Tj = operation limit temperature	Pdh	5,1	kW	Tj = operation limit temperature	COPd	2,04	-	
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	62	°C	
Power consumption in modes	other that	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	2,9	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical		
Standby mode	P _{SB}	0,015	kW	-				
Crankcase heater mode	Р _{ск}	-	kW					
Other items								
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.000	m³/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	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	easuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.				
			0	•				

Model				LWD 70A/RX-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 heater: (yes/no)				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	9	kW	Seasonal space heating energy efficiency	ηS	151,9	%
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of perfor temperature 20°C and outdoo			ndoor
Tj = -7°C	Pdh	6,2	kW	Tj = -7°C	COPd	3,18	-
Tj = +2°C	Pdh	7,5	kW	Tj = +2°C	COPd	3,94	-
Tj = +7°C	Pdh	8,7	kW	Tj = +7°C	COPd	4,66	-
Tj = +12°C	Pdh	10,3	kW	Tj = +12°C	COPd	5,58	-
Tj = bivalent temperature	Pdh	6,6	kW	Tj = bivalent temperature	COPd	3,47	-
Tj = operation limit temperature	Pdh	5,6	kW	Tj = operation limit temperature	COPd	2,90	-
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	62	°C
Power consumption in modes	other than	n active mod	e	Supplementary heater			<u>-</u>
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	3,0	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,015	kW				
Crankcase heater mode	Р _{ск}	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.000	m³/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	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			-				