

100699HDV1201

alpha innotec

LWDV 91-1/3-HDV 12-3



55 °C

35 °C



\Lambda ++

 A^+

A

В

L

A++

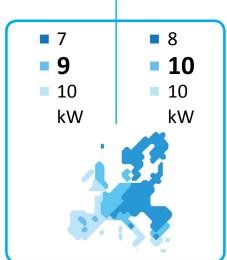




46 dB



54 dB



2019

811/2013



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LWDV 91-1/3-HDV 12-3



55 °C

35 °C



^++

A+

Δ

D

C

A++

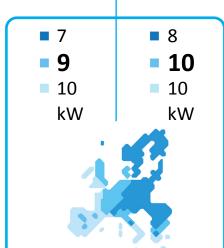




46 dB



54 dB



2019

811/2013



ENERG Y UA ehepгия · ενεργεια (Ε) (Α)

100699HDV1201

alpha innotec

LWDV 91-1/3-HDV 12-3 + Luxtronik 2.1























 A^+

A

B

C

D

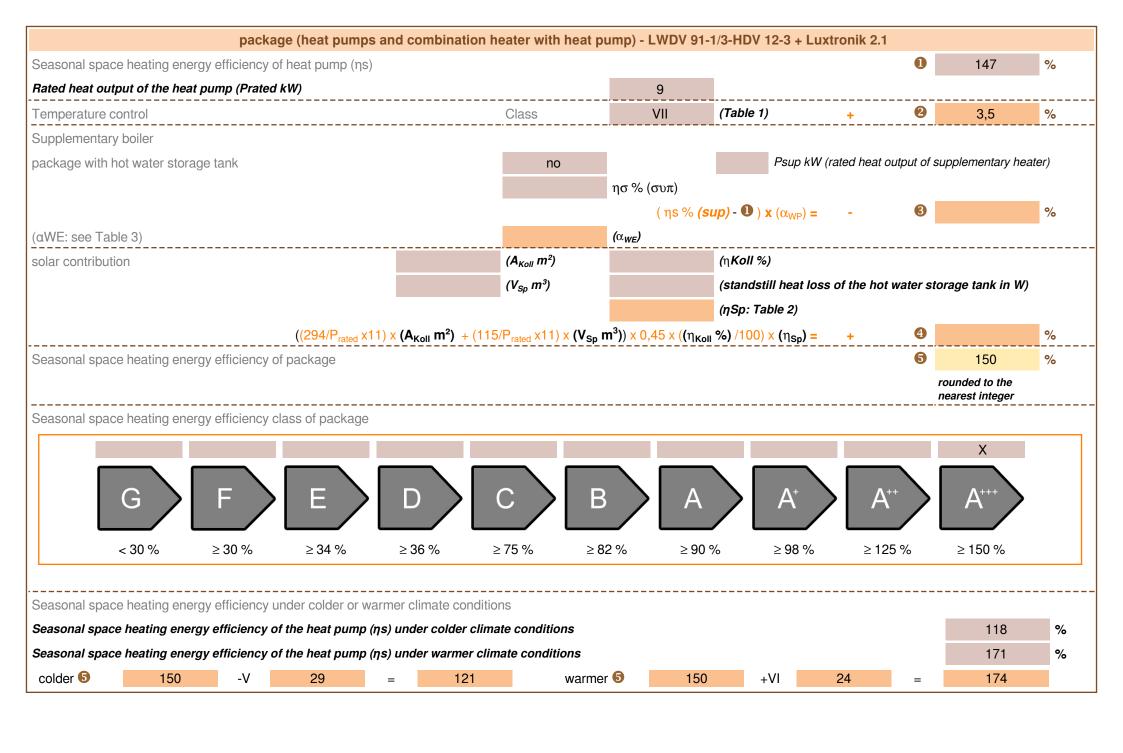
Ε

F

G



2015



heatpump datasheet:			
manufacturer:	alpha innotec		
model:	LWDV 91-1/3-HDV 12-3		
Information concerning energy efficiency class and rate	ed heat output:		
	average / low	average / medium	
energy efficiency class space heater:	A+++	A++	-
rated heat output:	10	9	kW
energy efficiency space heater:	187	147	%
annual final energy consumption space heater	4135	4904	kWh
			•
sound power level indoors		46	dB
		<u>'</u>	
special precautions concerning assembly, installation	or maintenance		
All instructional work in this manual may only be carried out be regulations.	y quaimed specialist persor	inei in compilance with loca	21
additional information	I low	and diving	
	low	medium	1.347
rated heat output colder climate	8	7	kW
rated heat output warmer climate	10	10	kW
energy effiency space heater colder climate	160	118	%
energy effiency space heater warmer climate	218	171	%
annual energy consumption space heater colder climate	4541	5277	kWh
annual energy consumption space heater warmer climate	2295	2910	kWh
		- -	
sound power level outdoors		54	dB

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

Model				LWDV 91-1/3-HDV 12-3			
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 V				Value	Unit	
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency	ηS	147,0	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
Tj = -7°C	Pdh	7,1	kW	Tj = -7°C	COPd	2,19	-
Tj = +2°C	Pdh	4,9	kW	Tj = +2°C	COPd	3,93	-
Tj = +7°C	Pdh	3,2	kW	Tj = +7°C	COPd	5,36	-
Tj = +12°C	Pdh	3,2	kW	Tj = +12°C	COPd	6,77	-
Tj = bivalent temperature	Pdh	7,5	kW	Tj = bivalent temperature	COPd	2,35	-
Tj = operation limit temperature	Pdh	6,8	kW	Tj = operation limit temperature	COPd	2,07	-
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}	-6	°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	70	°C
Power consumption in modes	other thai	active mod	e	Supplementary heater			•
Off mode	P _{OFF}	0,022	kW	Rated heat output	Psup	2,1	kW
Thermostat-off mode	P _{TO}	-	kW	Type of energy input		electrical	
Standby mode	P_{SB}	0,022	kW				
Crankcase heater mode	P _{CK}	0,030	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.500	m ³ /h
sound power level, indoors/outdoors	L _{WA}	46 / 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	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 degrada	tion coefficient is Cdh = 0,9.			

Model				LWDV 91-1/3-HDV 12-3			
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	10	kW	Seasonal space heating energy efficiency	ηS	186,9	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
Tj = -7°C	Pdh	7,3	kW	Tj = -7°C	COPd	2,96	-
Tj = +2°C	Pdh	5,4	kW	Tj = +2°C	COPd	5,17	-
Tj = +7°C	Pdh	3,4	kW	Tj = +7°C	COPd	6,90	-
Tj = +12°C	Pdh	3,3	kW	Tj = +12°C	COPd	8,22	-
Tj = bivalent temperature	Pdh	7,7	kW	Tj = bivalent temperature	COPd	3,11	-
Tj = operation limit temperature	Pdh	7,6	kW	Tj = operation limit temperature	COPd	3,05	-
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	70	°C
Power consumption in modes	other than	active mod	e	Supplementary heater			•
Off mode	P _{OFF}	0,022	kW	Rated heat output	Psup	1,9	kW
Thermostat-off mode	P _{TO}	-	kW	Type of energy input		electrical	•
Standby mode	P_{SB}	0,022	kW				
Crankcase heater mode	P _{CK}	0,030	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.500	m ³ /h
sound power level, indoors/outdoors	L _{WA}	46 / 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	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							