

	ENER	GY					
ALPHA 1 INNOTEC L	100699HDV901 LWDV 91-1/3-HDV 9-1/3						
	55°C	35°C					
A+++ A++ A B C D	A++	A++++					
(initial distribution of the second s	 7 9 10 kW 	 8 10 10 kW 					
((() 54 dB							
2019		811/2013					



100699HDV901 alpha innotec LWDV 91-1/3-HDV 9-1/3 + Luxtronik 2.1





ErP-Rechenverfahren-RHG

heatpump datasheet:						
manufacturer:	alpha innotec					
model:	LWDV 91-1/3-HDV 9-	1/3				
Information concerning energy efficiency class and rated 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			
			•			
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 under colder climate conditions	8	7	kW			
rated heat output under warmer climate conditions	10	10	kW			
energy effiency space heater under colder climate conditions	160	118	%			
energy effiency space heater under warmer climate conditions	218	171	%			
annual energy consumption space heater under colder climate conditions	4541	5277	kWh			
annual energy consumption space heater under warmer climate conditions	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 energy efficiency space heater	3,5	%			

ErP-Produktdatenblatt2_RHG

Model				LWDV 91-1/3-HDV 9-1/3			
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			no				
dimate: (colder/average/warmer)							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency	ηS	147	%
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				
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	СОРсус		-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	70	°C
Power consumption in modes other than active mode			Supplementary heater				
Off mode	P_{OFF}	0,022	kW	Rated heat output	Psup	2,1	kW
Thermostat-off mode	P _{to}	0,000	kW				
Standby mode	P _{SB}	0,022	kW	Type of energy input	el	ectrical	
Crankcase heater mode	Р _{ск}	0,030	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow 350 rate, outdoors		3500]m³/h
sound power level, indoors/outdoors	L wa	46/54	dB	For water-/brine-to-water heat pumps: brine or water flow rate, outdoor heat	Rated		m³/h
Emissions of nitrogen oxides	NO x	-	mg/ kWh	exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q elec		kWh	Daily fuel consumption	Q _{fuel}	0	kWh
Contact details		ait deuts	schland	GmbH Industriestr. 3 95359 Kasendorf Gei	rmany	·	·
(*) For heat pump space heaters and heat pump combination heater Psup is equal to the supplementary capacity for heater Psup is equal to the supplementary capacity for heater theater theater the supplementary capacity for	ion heaters, the ting s	rated heat out	put Prated i	s equal to the design load for heating Pdesignh, and the rated	heat output of	a supplementa	ry

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model				LWDV 91-1/3-HDV 9-1/3			
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 neater with							
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 performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				
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	6,9] -
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	СОРсус		-
Degradation co-efficient (**)	Cdh	1	-	Heating water operating limit temperature	WTOL	70	°C
Power consumption in modes other than active mode			Supplementary heater				
Off mode	P _{OFF}	0,022	kW	Rated heat output	Psup	1,9	kW
Thermostat-off mode	Р _{то}	0,000	kW				
Standby mode	P _{SB}	0,022	kW	Type of energy input	el	ectrical	
Crankcase heater mode	P _{CK}	0,030	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow 35		3500	
sound power level, indoors/outdoors	L wa	46/54	dB	For water-/brine-to-water heat pumps: brine or water flow rate, outdoor heat	Rated		m³/h
Emissions of nitrogen oxides	NOx	-	mg/ kWh	exchanger			
For heat pump combination heater:				•			
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}		kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Contact details		ait deuts	schland	GmbH Industriestr. 3 95359 Kasendorf Ge	rmany		
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating s							

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.