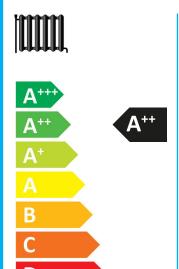
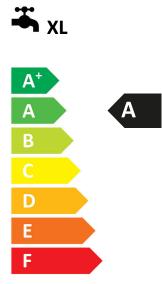


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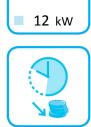
L12 Split-HT 12











13 kW

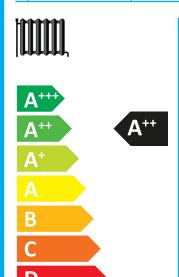
**10** kW

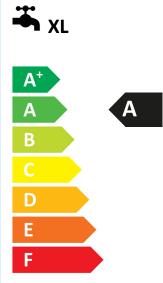


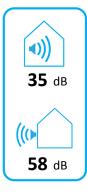
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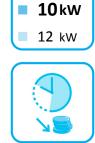
L12 Split-HT 12











13 kW

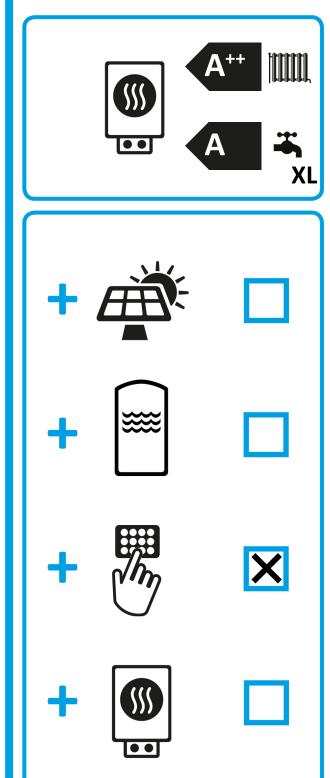


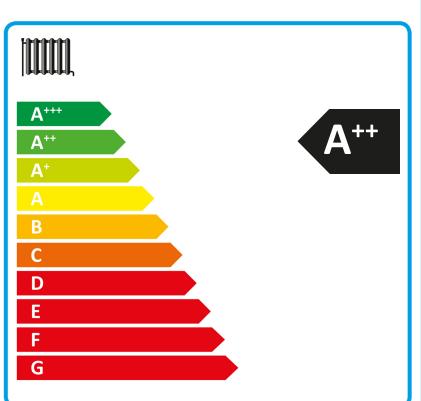
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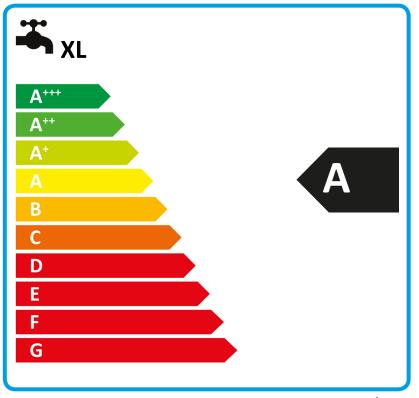
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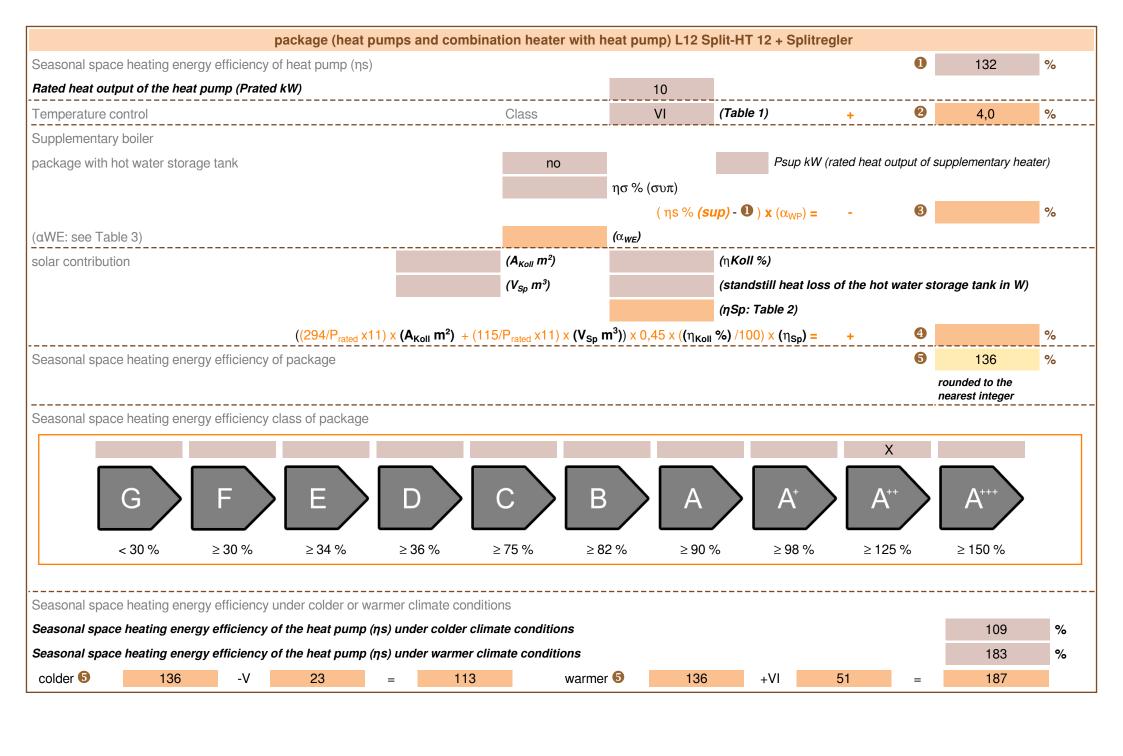
alpha innotec

L12 Split-HT 12 + Splitregler









manufacturer:	alpha innotec				
model:	L12 Split-HT 12				
Information concerning energy efficiency class and rated	d heat output:				
load profile water heating	XL		-		
			_		
	average / low	average / medium			
energy efficiency class space heater:	A++	A++	-		
energy efficiency class waterheating		A	-		
rated heat output:	12	10	kW		
annual final energy consumption space heater	5361	6137	kWh		
annual electricity consumption waterheating	1702		kWh		
energy efficiency space heater:	174	132	%		
energy emidlency space neater.	117 1				
	98	•	%		
energy efficiency waterheating			1		
		35	% dB		
energy efficiency waterheating sound power level indoors	98	35	1		
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or	98 maintenance	-	dB		
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or	98 maintenance	-	dB		
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by	98 maintenance	-	dB		
energy efficiency waterheating sound power level indoors special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a	maintenance qualified specialist personnel in c	ompliance with local regulations	dB		
energy efficiency waterheating sound power level indoors  special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a additional information rated heat output colder climate	maintenance qualified specialist personnel in c	ompliance with local regulations medium	dB		
energy efficiency waterheating sound power level indoors  special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a additional information rated heat output colder climate rated heat output warmer climate	maintenance qualified specialist personnel in c	ompliance with local regulations medium 13	dB		
energy efficiency waterheating sound power level indoors	maintenance qualified specialist personnel in c	ompliance with local regulations  medium  13  12	dB s. kW kW		
energy efficiency waterheating  sound power level indoors  special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a additional information  rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate	maintenance qualified specialist personnel in c low 12 12 7920	ompliance with local regulations medium 13 12 11461	dB s. kW kWh		
energy efficiency waterheating  sound power level indoors  special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a additional information  rated heat output colder climate  rated heat output warmer climate  annual energy consumption space heater colder climate  annual energy consumption space heater warmer climate  annual energy consumption waterheating colder climate	maintenance qualified specialist personnel in control low 12 12 7920 2765	ompliance with local regulations medium 13 12 11461	dB s. kW kW kWh		
energy efficiency waterheating  sound power level indoors  special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a additional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate	maintenance qualified specialist personnel in c low 12 12 12 7920 2765 1903	ompliance with local regulations medium 13 12 11461	dB s. kW kWh kWh		
energy efficiency waterheating  sound power level indoors  special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a additional information  rated heat output colder climate  rated heat output warmer climate  annual energy consumption space heater colder climate  annual energy consumption space heater warmer climate  annual energy consumption waterheating colder climate  ann. Electricity consumption waterheating warmer climate  ann. Electricity consumption waterheating warmer climate  energy effiency space heater colder climate	maintenance qualified specialist personnel in c low 12 12 12 7920 2765 1903 1551	ompliance with local regulations  medium  13  12  11461  3445	dB  kW kWh kWh kWh		
energy efficiency waterheating  sound power level indoors  special precautions concerning assembly, installation or All instructional work in this manual may only be carried out by a additional information  rated heat output colder climate  rated heat output warmer climate  annual energy consumption space heater colder climate  annual energy consumption space heater warmer climate  ann. Electricity consumption waterheating colder climate  ann. Electricity consumption waterheating warmer climate	maintenance qualified specialist personnel in c low 12 12 7920 2765 1903 1551 140	ompliance with local regulations medium 13 12 11461 3445	dB s. kW kWh kWh kWh kWh		

technical data of the temperature controller							
manufacturer:	alpha innotec						
model:	Splitregler						
controller class	VI	-					
contribution of the controller to the energy efficiency space heater	4,0	%					

Model				L12 Split-HT 12				
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	o)		no				
combination heater with: (yes/no)				yes				
application: (low/medium)				medium				
climate: (colder/average/warmer)	)			average				
Item	Symbol	Value	Unit	t Item Symbol Valu				
Rated heat output	Prated	10	kW	Seasonal space heating energy efficiency	ηS	132,0	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of perfor temperature 20°C and outdoor			ndoor		
Tj = -7°C	Pdh	8,9	kW	Tj = -7°C	COPd	1,99	-	
Tj = +2°C	Pdh	5,5	kW	Tj = +2°C	COPd	3,22	-	
Tj = +7°C	Pdh	3,6	kW	Tj = +7°C	COPd	4,61	-	
Tj = +12°C	Pdh	5,0	kW	Tj = +12°C	COPd	6,91	-	
Tj = bivalent temperature	Pdh	9,2	kW	Tj = bivalent temperature	COPd	1,90	-	
Tj = operation limit temperature	Pdh	8,1	kW	Tj = operation limit temperature	COPd	1,92	-	
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>	-8	°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	58	°C	
Power consumption in modes	other than	n active mod	e	Supplementary heater				
Off mode	P <sub>OFF</sub>	0,002	kW	Rated heat output	Psup	1,9	kW	
Thermostat-off mode	P <sub>TO</sub>	0,020	kW	Type of energy input		electrical	•	
Standby mode	$P_{SB}$	0,015	kW					
Crankcase heater mode	P <sub>CK</sub>	0,035	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4.380	m <sup>3</sup> /h	
sound power level, indoors/outdoors	L <sub>WA</sub>	35 / 58	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	$\eta_{wh}$	98	%	
Daily electricity consumption	Q <sub>elec</sub>	7,752	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	

Model				L12 Split-HT 12				
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)				no				
combination heater with: (yes/no)				yes				
application: (low/medium)				low				
climate: (colder/average/warmer)				average				
Item	Symbol	Value	Unit	Item	Value	Unit		
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	ηS	174,0	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of perfor temperature 20°C and outdoor			ndoor		
Tj = -7°C	Pdh	10,3	kW	Tj = -7°C	COPd	2,93	-	
Tj = +2°C	Pdh	6,3	kW	Tj = +2°C	COPd	4,37	-	
Tj = +7°C	Pdh	4,1	kW	Tj = +7°C	COPd	5,53	-	
Tj = +12°C	Pdh	4,8	kW	Tj = +12°C	COPd	7,59	-	
Tj = bivalent temperature	Pdh	10,2	kW	Tj = bivalent temperature	COPd	2,93	-	
Tj = operation limit temperature	Pdh	9,3	kW	Tj = operation limit temperature	COPd	2,68	-	
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>	-7	°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	58	°C	
Power consumption in modes	other thai	active mod	<u>.                                    </u>	Supplementary heater	•			
Off mode	P <sub>OFF</sub>	0,002	kW	Rated heat output	Psup	2,2	kW	
Thermostat-off mode	P <sub>TO</sub>	0,020	kW	Type of energy input		electrical		
Standby mode	$P_{SB}$	0,015	kW					
Crankcase heater mode	P <sub>CK</sub>	0,035	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4.380	m <sup>3</sup> /h	
sound power level, indoors/outdoors	L <sub>WA</sub>	35 / 58	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	1	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	ult degrada	tion coefficient is Cdh = 0,9.				