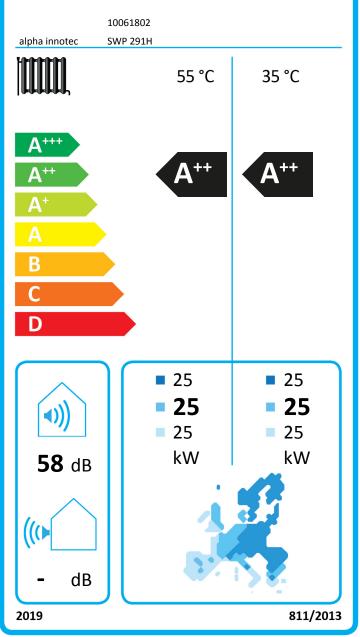
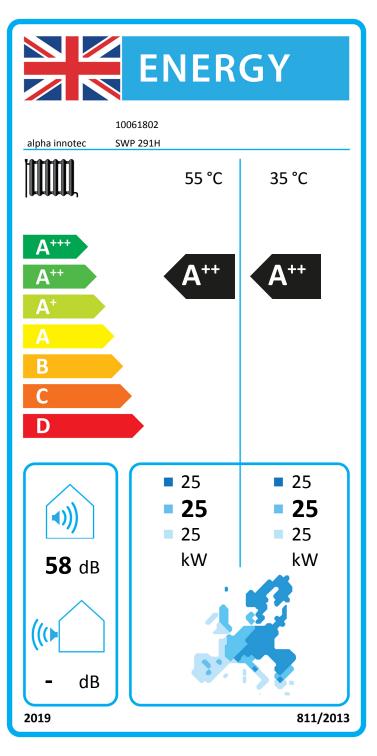


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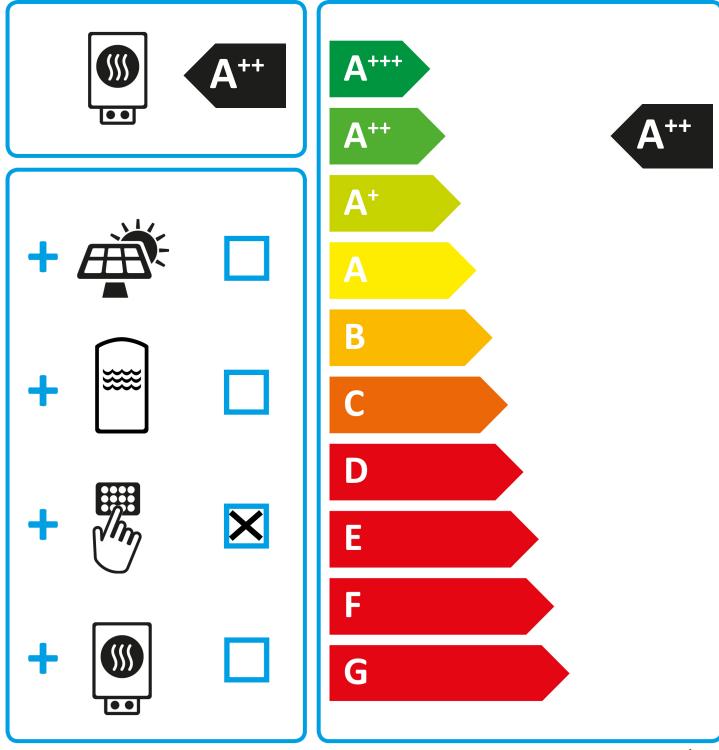


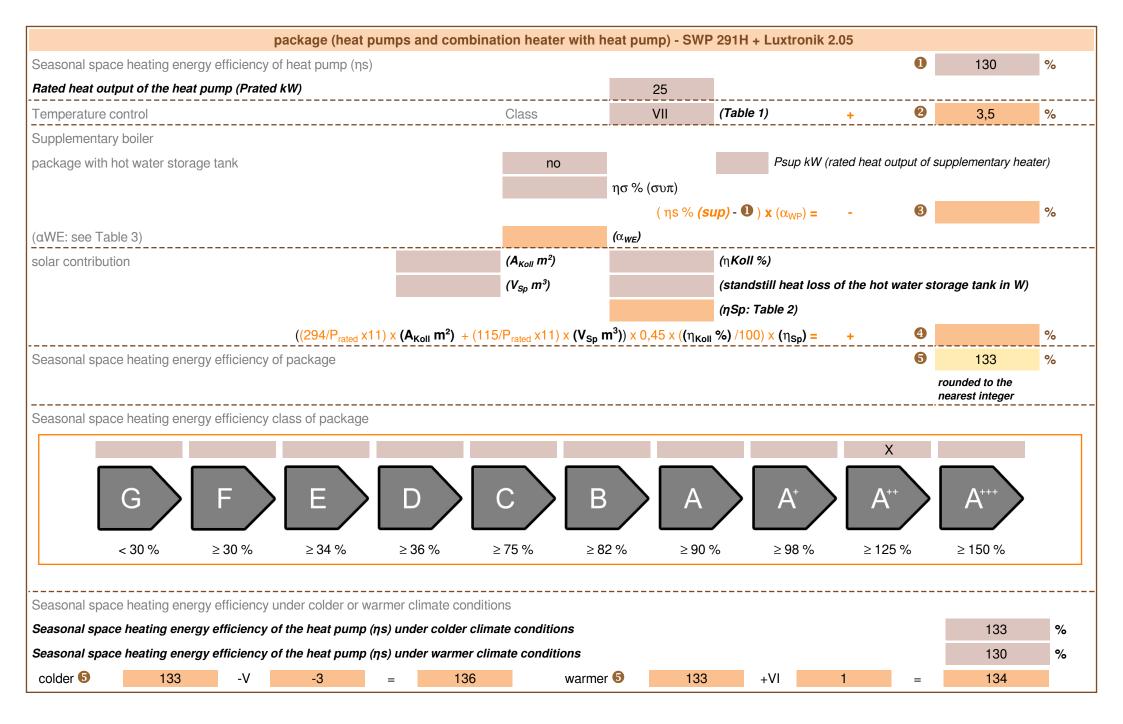


10061802

alpha innotec

SWP 291H + Luxtronik 2.05





manufacturer:	alpha innotec				
model:	SWP 291H	SWP 291H			
Information concerning energy efficiency class and	d rated heat output:				
		_	-		
	average / low	average / medium			
energy efficiency class space heater:	A++	A++	-		
rated heat output:	25	25	kW		
energy efficiency space heater:	172	130	%		
annual final energy consumption space heater	11340	14830	kWh		
sound power level indoors		58	dB		
special precautions concerning assembly, installat	tion or maintenance				
All instructional work in this manual may only be carried regulations.	out by qualified specialist persor	nnel in compliance with loca	l		

additional information	low	medium	
rated heat output colder climate	25	25	kW
rated heat output warmer climate	25	25	kW
energy effiency space heater colder climate	177	133	%
energy effiency space heater warmer climate	173	130	%
annual energy consumption space heater colder climate	13199	17293	kWh
annual energy consumption space heater warmer climate	7277	9541	kWh
sound power level outdoors		-	dB

technical data of the temperature controller							
manufacturer:	alpha innotec Luxtronik 2.05						
model:							
controller class	VII -						
contribution of the controller to the energy efficiency space	neater 3,5 %						

Model				SWP 291H			
Air-to-water heat pump: (yes/no)				no			
Brine-to-water heat pump: (yes/no)				yes			
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					Value	Unit	
Rated heat output	Prated	25	kW	Seasonal space heating energy efficiency	ηS	129,6	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoo			ndoor
Tj = -7°C	Pdh	24,7	kW	Tj = -7°C	COPd	2,92	-
Tj = +2°C	Pdh	24,7	kW	Tj = +2°C	COPd	3,40	-
Tj = +7°C	Pdh	24,7	kW	Tj = +7°C	COPd	3,77	-
Tj = +12°C	Pdh	24,7	kW	Tj = +12°C	COPd	4,21	-
Tj = bivalent temperature	Pdh	24,7	kW	Tj = bivalent temperature	COPd	2,80	-
Tj = operation limit temperature	Pdh	24,7	kW	Tj = operation limit temperature	COPd	2,80	-
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}	-10	°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 that	n active mod	le	Supplementary heater			-
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,015	kW	-			
Crankcase heater mode	Рск	-	kW				
Other items	•				•		
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h
sound power level, indoors/outdoors	L _{WA}	58 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	10	m³/h
Emissions of nitrogen oxides	NO _X	-	mg/kWh		-		-
For heat pump combination h							
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		95359 Kasendorf Germany			1
(*) For heat pump space heaters	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		-			.,	9 (· J/·	

Model				SWP 291H			
Air-to-water heat pump: (yes/no)			no				
Brine-to-water heat pump: (yes/no)			yes				
Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no)			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	25	kW	Seasonal space heating energy efficiency	ηS	172,0	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoo			ndoor
Tj = -7°C	Pdh	24,7	kW	Tj = -7°C	COPd	4,22	-
Tj = +2°C	Pdh	24,7	kW	Tj = +2°C	COPd	4,48	-
Tj = +7°C	Pdh	24,7	kW	Tj = +7°C	COPd	4,73	-
Tj = +12°C	Pdh	24,7	kW	Tj = +12°C	COPd	4,97	-
Tj = bivalent temperature	Pdh	24,7	kW	Tj = bivalent temperature	COPd	4,17	-
Tj = operation limit temperature	Pdh	24,7	kW	Tj = operation limit temperature	COPd	4,17	-
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}	-10	°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 that	n active mod	le	Supplementary heater			
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,015	kW	1			
Crankcase heater mode	Рск	-	kW				
Other items			1				
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h
sound power level, indoors/outdoors	L _{WA}	58 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	10	m ³ /h
Emissions of nitrogen oxides	NO _X	-	mg/kWh	·	-		-
For heat pump combination h							
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details		land GmbH II		95359 Kasendorf Germany			
(*) For heat pump space heaters	and heat pu	imp combinat	ion heaters, t	the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m			-		.,	<u> </u>	