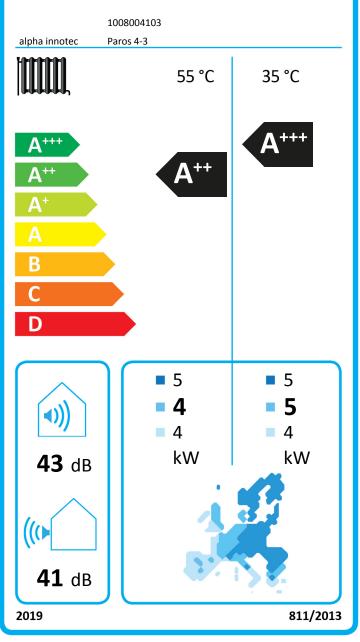
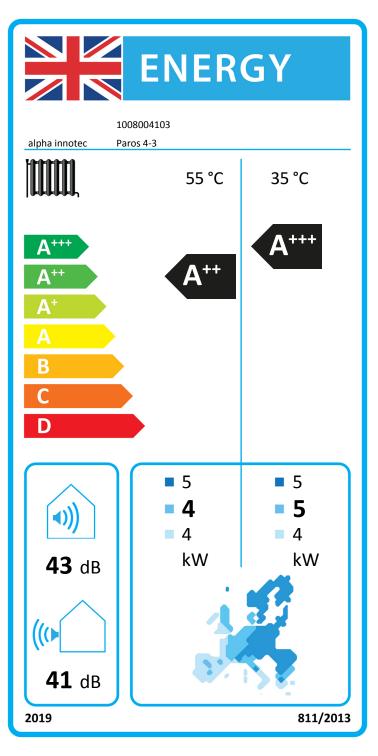


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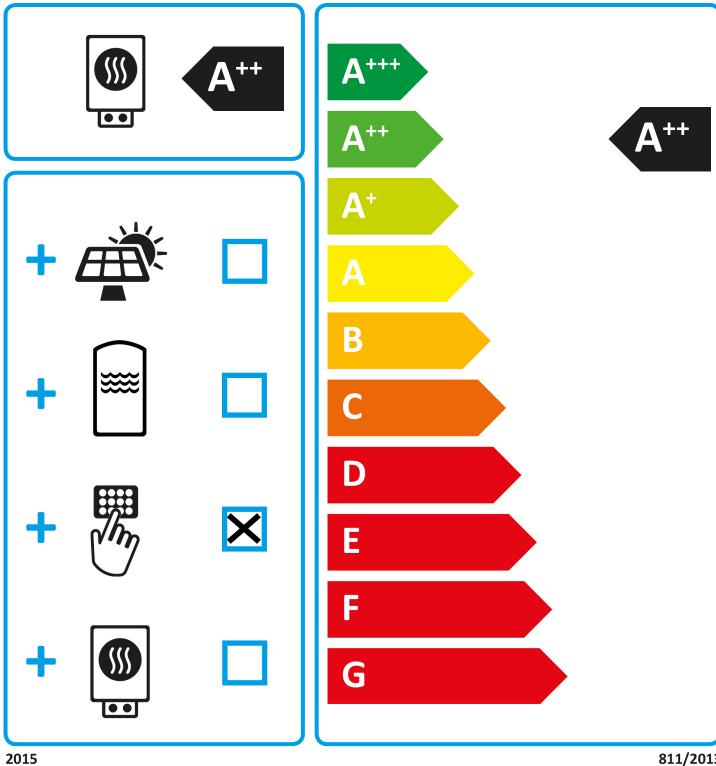


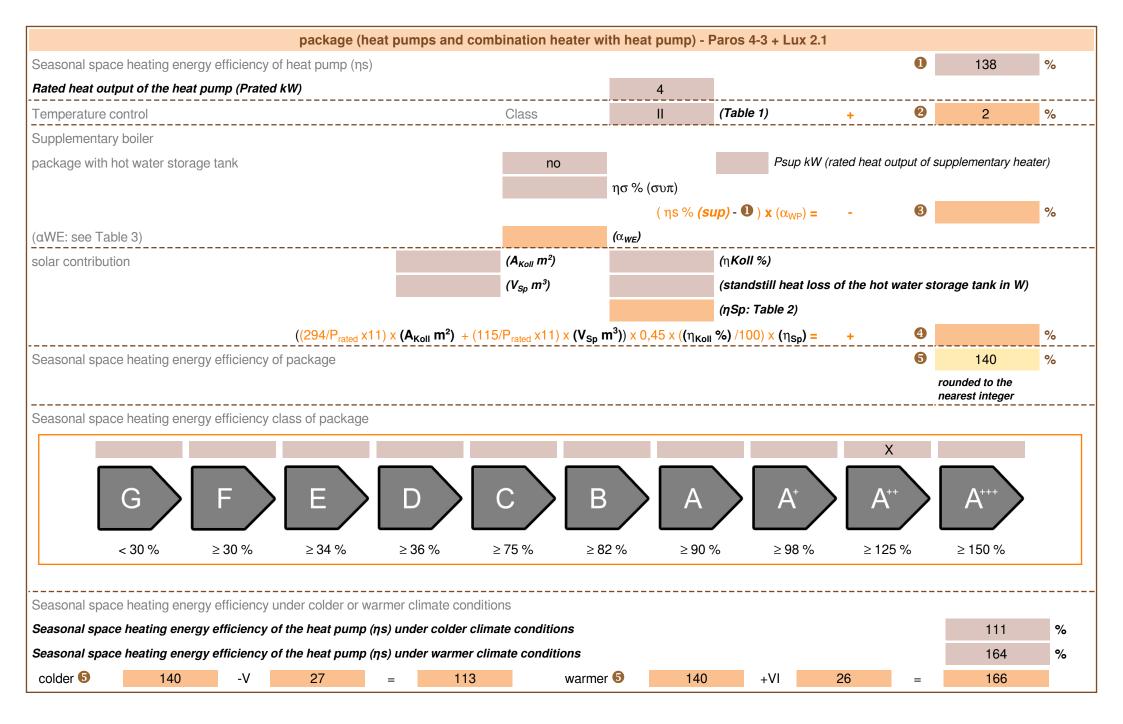
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alpha innotec

Paros 4-3 + Lux 2.1

## 





manufacturer:	alpha innotec	alpha innotec					
model:	Paros 4-3						
Information concerning energy efficiency class an	d rated heat output:						
			1				
	average / low	average / medium					
energy efficiency class space heater:	A+++	A++	-				
rated heat output:	5	4	kW				
energy efficiency space heater:	180	138	%				
annual final energy consumption space heater	2257	2347	kWł				
sound power level indoors <b>special precautions concerning assembly, installa</b> All instructional work in this manual may only be carried regulations.		43	dB				
special precautions concerning assembly, installa All instructional work in this manual may only be carried			I				
<b>special precautions concerning assembly, installa</b> All instructional work in this manual may only be carried regulations.			I				
special precautions concerning assembly, installa All instructional work in this manual may only be carried regulations. additional information	out by qualified specialist perso	nnel in compliance with loca	I				
special precautions concerning assembly, installa All instructional work in this manual may only be carried regulations. additional information rated heat output colder climate	out by qualified specialist person	nnel in compliance with loca	al				
special precautions concerning assembly, installa All instructional work in this manual may only be carried regulations. additional information rated heat output colder climate rated heat output warmer climate	out by qualified specialist person	nnel in compliance with loca medium 5	al kW				
special precautions concerning assembly, installa All instructional work in this manual may only be carried regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	out by qualified specialist person	medium	al kW kW				
special precautions concerning assembly, installa All instructional work in this manual may only be carried	out by qualified specialist person low 5 4 137 215	medium 5 4 111	al kW kW %				

technical data of the temperature controller						
manufacturer:	alpha innotec					
model:		Lux 2.1				
controller class		1	-			
contribution of the controller to the energy efficiency space heater 2 %						

Model				Paros 4-3				
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	Value	Unit	
Rated heat output	Prated	4	kW	Seasonal space heating energy efficiency	ηS	137,8	%	
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	3,8	kW	Tj = -7°C	COPd	2,01	-	
Tj = +2°C	Pdh	2,3	kW	Tj = +2°C	COPd	3,64	-	
Tj = +7°C	Pdh	2,2	kW	Tj = +7°C	COPd	4,56	-	
Tj = +12°C	Pdh	2,3	kW	Tj = +12°C	COPd	5,24	-	
Tj = bivalent temperature	Pdh	3,8	kW	Tj = bivalent temperature	COPd	2,01	-	
Tj = operation limit temperature	Pdh	2,9	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 <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	65	°C	
Power consumption in modes	s other that	n active mod	e	Supplementary heater				
Off mode	P <sub>OFF</sub>	0,011	kW	Rated heat output	Psup	1,1	kW	
Thermostat-off mode	P <sub>TO</sub>	-	kW	Type of energy input		electrical	1	
Standby mode	P <sub>SB</sub>	0,011	kW					
Crankcase heater mode	Рск	-	kW					
Other items			1					
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	1.200	m³/h	
sound power level, indoors/outdoors	L <sub>WA</sub>	43 / 41	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		-		Water heating energy efficiency	$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details		land GmbH, I		3, 95359 Kasendorf, Germany	1		1	
(*) For heat pump space heaters	and heat pu	Imp combinat	ion heaters,	the rated heat output Prated is equ			eating	
(**) If Cdh is not determined by m			-					

Model				Paros 4-3				
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	5	kW	Seasonal space heating energy efficiency	ηS	180,1	%	
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	4,1	kW	Tj = -7°C	COPd	2,47	-	
Tj = +2°C	Pdh	2,8	kW	Tj = +2°C	COPd	4,80	-	
Tj = +7°C	Pdh	2,4	kW	Tj = +7°C	COPd	6,07	-	
Tj = +12°C	Pdh	2,4	kW	Tj = +12°C	COPd	6,79	-	
Tj = bivalent temperature	Pdh	4,1	kW	Tj = bivalent temperature	COPd	2,47	-	
Tj = operation limit temperature	Pdh	4,1	kW	Tj = operation limit temperature	COPd	2,27	-	
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	65	°C	
Power consumption in modes	other that	n active mod	e	Supplementary heater				
Off mode	P <sub>OFF</sub>	0,011	kW	Rated heat output	Psup	0,9	kW	
Thermostat-off mode	P <sub>TO</sub>	-	kW	Type of energy input		electrical		
Standby mode	P <sub>SB</sub>	0,011	kW					
Crankcase heater mode	Р <sub>ск</sub>	-	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	1.200	m³/h	
sound power level, indoors/outdoors	L <sub>WA</sub>	43 / 41	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		-		Water heating energy efficiency	$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details		land GmbH, I	ndustriestr. 3	3, 95359 Kasendorf, Germany				
	and heat pu	Imp combinati	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating	
(**) If Cdh is not determined by m			-		-	/		
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