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alpha innotec

Jersey 5-1









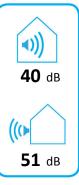
















2019

811/2013



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Jersey 5-1











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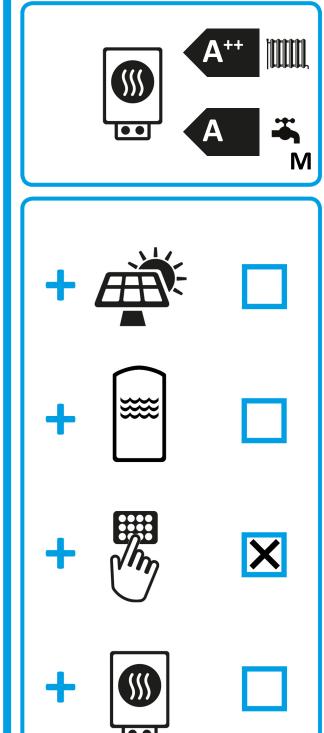


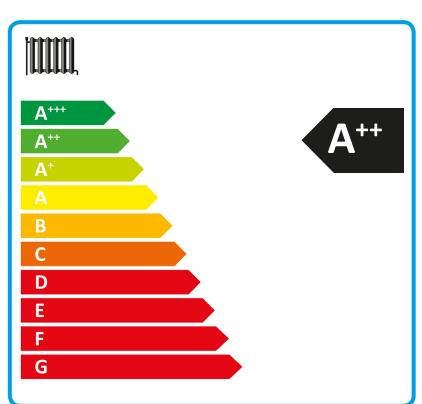
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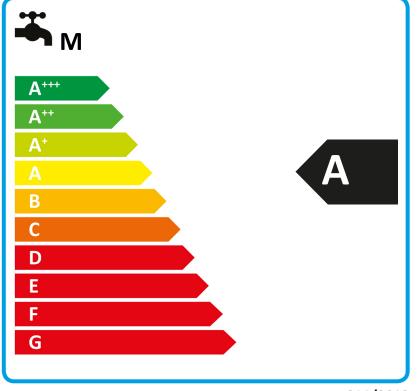
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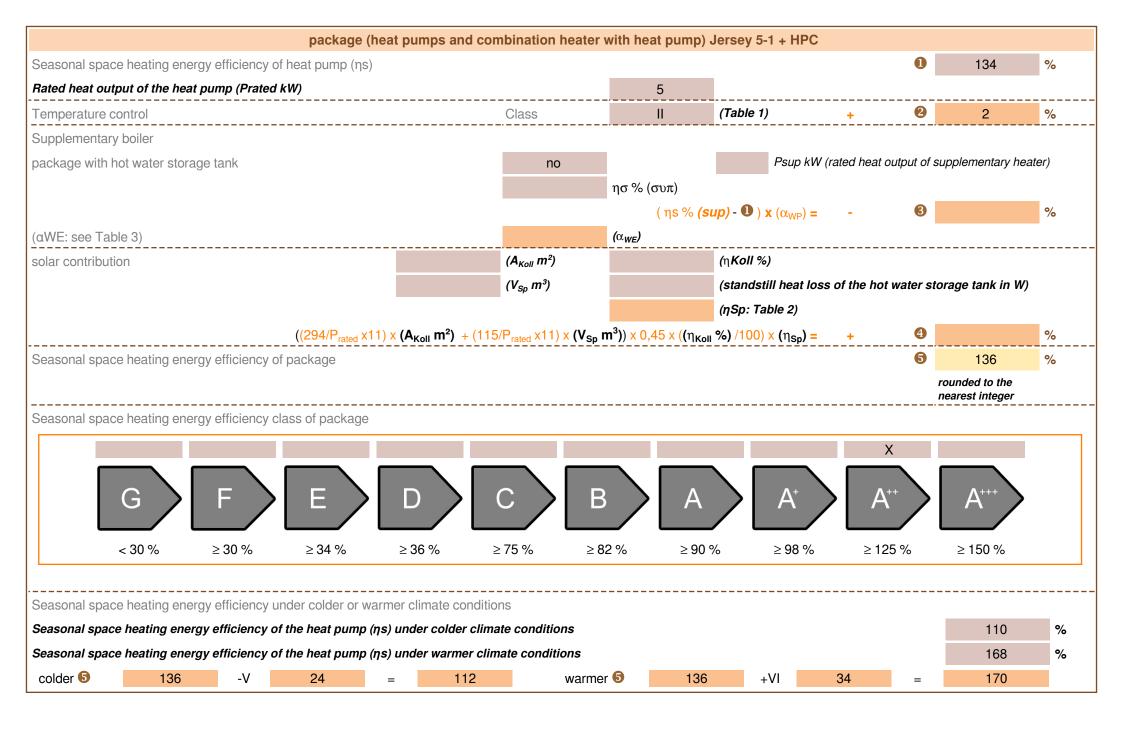
alpha innotec

Jersey 5-1 + HPC









heatpump datasheet:					
- •					
manufacturer:	alpha innotec				
model:	Jersey 5-1				
Information concerning energy efficiency class and rated h	eat output:				
load profile water heating	M				
	•				
	average / low	average / medium			
energy efficiency class space heater:	A+++	A++	-		
energy efficiency class waterheating		À	-		
rated heat output:	6	5	kW		
annual final energy consumption space heater	2551	3257	kWh		
annual electricity consumption waterheating	647		kWh		
energy efficiency space heater:	178	134	%		
energy efficiency waterheating	79		%		
sound power level indoors		40	dB		
special precautions concerning assembly, installation or m	aintenance				
All instructional work in this manual may only be carried out by qua	alified specialist personnel in co	ompliance with local regulations			
			•		
			<u>. </u>		
additional information	low	medium	· 		
additional information rated heat output colder climate	low 4	medium	kW		
rated heat output colder climate	4	6	kW		
rated heat output colder climate rated heat output warmer climate	4 5	6 5	kW kW		
rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate	4 5 2683	6 5 4852	kW kW kWh		
rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate	4 5 2683 1169	6 5 4852	kW kW kWh		
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	4 5 2683 1169 708	6 5 4852	kW kW kWh kWh		
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	4 5 2683 1169 708 562	6 5 4852 1559	kW kW kWh kWh kWh		
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 energy effiency space heater colder climate	4 5 2683 1169 708 562 144	6 5 4852 1559	kW kW kWh kWh kWh		
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 energy effiency space heater colder climate energy effiency space heater warmer climate	4 5 2683 1169 708 562 144 236	6 5 4852 1559	kW kWh kWh kWh kWh		
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 energy effiency space heater colder climate energy efficiency space heater warmer climate energy efficiency waterheating colder climate	4 5 2683 1169 708 562 144 236 72	6 5 4852 1559	kW kWh kWh kWh kWh %		

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

Model			Jersey 5-1				
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)			yes				
application: (low/medium)			medium				
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	134,0	%
Declared coefficient of perfor temperature 20°C and outdoor			ndoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
Tj = -7°C	Pdh	4,7	kW	Tj = -7°C	COPd	1,94	-
Tj = +2°C	Pdh	2,8	kW	Tj = +2°C	COPd	3,34	-
Tj = +7°C	Pdh	1,9	kW	Tj = +7°C	COPd	4,68	-
Tj = +12°C	Pdh	1,7	kW	Tj = +12°C	COPd	6,35	-
Tj = bivalent temperature	Pdh	4,7	kW	Tj = bivalent temperature	COPd	1,94	-
Tj = operation limit temperature	Pdh	4,8	kW	Tj = operation limit temperature	COPd	1,84	-
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}	-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 than	n active mod	e	Supplementary heater			
Off mode	P _{OFF}	0,005	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P _{TO}	0,013	kW	Type of energy input		electrical	
Standby mode	P_SB	0,013	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items			•	•			
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.526	m ³ /h
sound power level, indoors/outdoors	L _{WA}	40 / 51	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:		<u> </u>				
Declared load profile		М		Water heating energy efficiency	η_{wh}	79	%
Daily electricity consumption	Q_{elec}	3,194	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	ait deutsch	land GmbH, I	ndustriestr. 3	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 degradat	tion coefficient is Cdh = 0,9.			

Model			Jersey 5-1				
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)			yes				
application: (low/medium)			low				
climate: (colder/average/warmer)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	6	kW	Seasonal space heating energy efficiency	ηS	178,4	%
Declared coefficient of perfor temperature 20°C and outdoo			ndoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
Tj = -7°C	Pdh	4,9	kW	Tj = -7°C	COPd	2,68	-
Tj = +2°C	Pdh	2,9	kW	Tj = +2°C	COPd	4,37	-
Tj = +7°C	Pdh	1,9	kW	Tj = +7°C	COPd	6,38	-
Tj = +12°C	Pdh	1,8	kW	Tj = +12°C	COPd	7,67	-
Tj = bivalent temperature	Pdh	4,9	kW	Tj = bivalent temperature	COPd	2,68	-
Tj = operation limit temperature	Pdh	4,9	kW	Tj = operation limit temperature	COPd	2,58	-
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}	-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 _{OFF}	0,005	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P _{TO}	0,013	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,013	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items				_			
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.526	m ³ /h
sound power level, indoors/outdoors	L _{WA}	40 / 51	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:		<u> </u>				
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, I	ndustriestr. 3	3, 95359 Kasendorf, Germany	<u>- </u>		
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m	neasuremen	t then the defa	ault degradat	tion coefficient is Cdh = 0,9.			