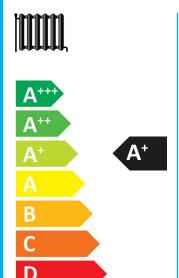
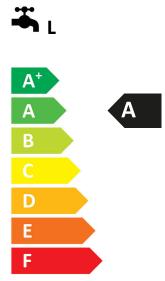


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alpha innotec

Jersey 7-1











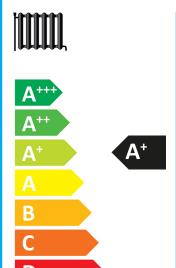
10 kW

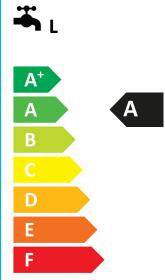


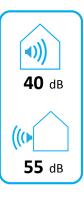
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alpha innotec

Jersey 7-1











10 kW

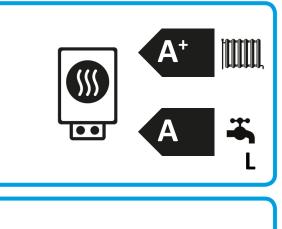


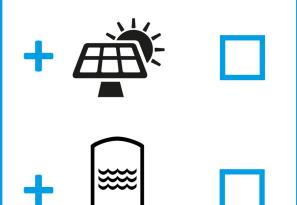
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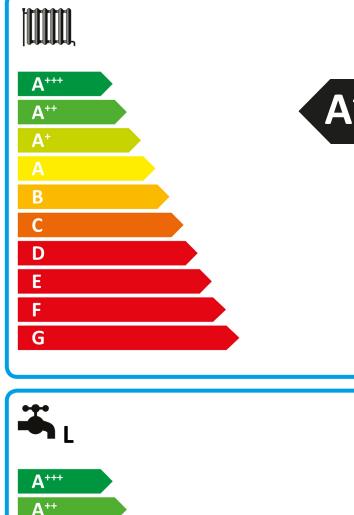
Jersey 7-1 + HPC

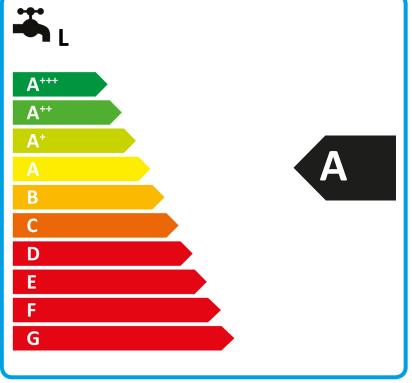


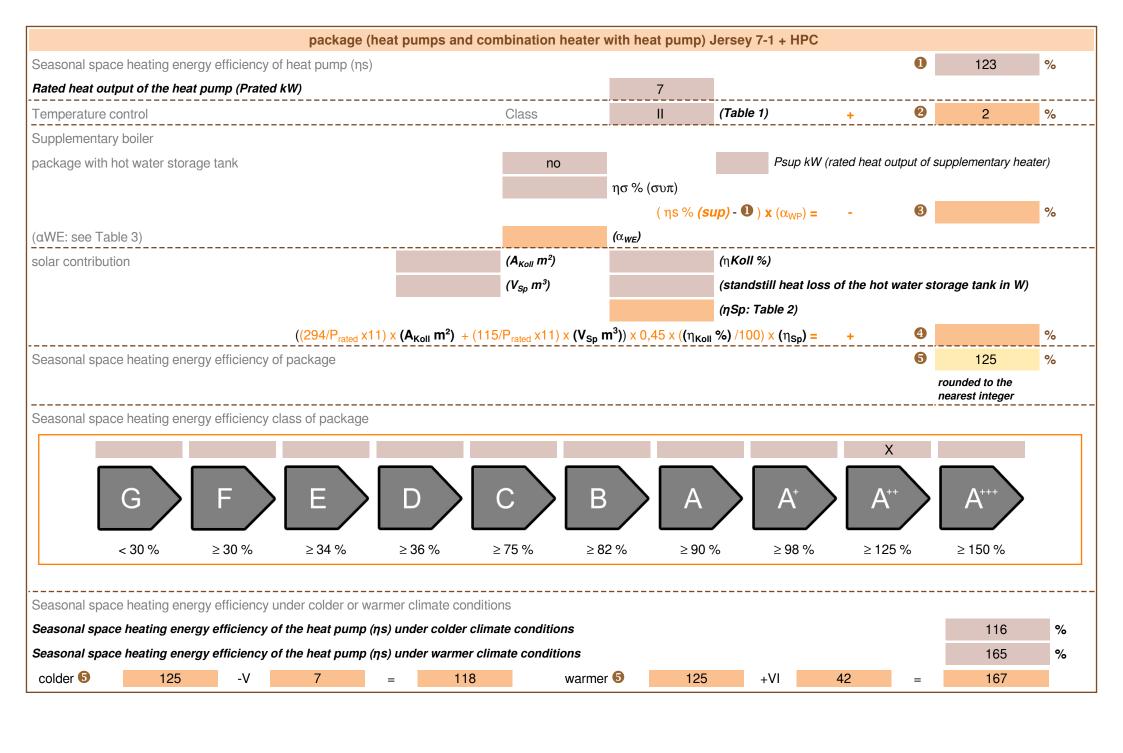












heatpump datasheet:							
manufacturer:	alpha innotec						
model:	Jersey 7-1	· ·					
Information concerning energy efficiency class and rated	heat output:						
load profile water heating	L	-					
	average / low	average / medium					
energy efficiency class space heater:	A++	A+	-				
energy efficiency class waterheating		Ä	-				
rated heat output:	8	7	kW				
annual final energy consumption space heater	4102	4917	kWh				
annual electricity consumption waterheating	1188	<u>'</u>	kWh				
energy efficiency space heater:	162	123	%				
energy efficiency waterheating	86	<u>'</u>	%				
	•						
sound power level indoors		40	dB				
		<u>'</u>					
special precautions concerning assembly, installation or n	maintenance						
All instructional work in this manual may only be carried out by qu	ualified specialist personnel in co	ompliance with local regulations					
additional information	low	medium					
rated heat output colder climate	9	10	kW				
rated heat output warmer climate	8	8	kW				
annual energy consumption space heater colder climate	6116	8289	kWh				
annual energy consumption space heater warmer climate	1995	2540	kWh				
ann. Electricity consumption waterheating colder climate	1299		kWh				
ann. Electricity consumption waterheating warmer climate	1031	1031					
energy effiency space heater colder climate	142	116	%				
energy effiency space heater warmer climate	211	165	%				
energy efficiency waterheating colder climate	79		%				
energy efficiency DHWwarmer climate	te 99						
sound power level outdoors 55							

nnical 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 7-1				
Air-to-water heat pump: (yes/no)			yes				
Brine-to-water heat pump: (yes/no)			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	7	kW	Seasonal space heating energy efficiency	ηS	122,9	%
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	6,5	kW	Tj = -7°C	COPd	2,03	-
Tj = +2°C	Pdh	3,7	kW	Tj = +2°C	COPd	3,00	-
Tj = +7°C	Pdh	2,5	kW	Tj = +7°C	COPd	4,25	-
Tj = +12°C	Pdh	2,2	kW	Tj = +12°C	COPd	5,60	-
Tj = bivalent temperature	Pdh	6,5	kW	Tj = bivalent temperature	COPd	2,03	-
Tj = operation limit temperature	Pdh	5,3	kW	Tj = operation limit temperature	COPd	1,75	-
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}	0,041	kW	Rated heat output	Psup	2,2	kW
Thermostat-off mode	P _{TO}	0,045	kW	Type of energy input		electrical	•
Standby mode	P_{SB}	0,045	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.000	m ³ /h
sound power level, indoors/outdoors	L _{WA}	40 / 55	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:						
Declared load profile		L		Water heating energy efficiency	η_{wh}	86	%
Daily electricity consumption	Q _{elec}	5,817	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	neasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.			

Model			Jersey 7-1				
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	8	kW	Seasonal space heating energy efficiency	ηS	162,2	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	7,2	kW	Tj = -7°C	COPd	2,65	-
Tj = +2°C	Pdh	4,1	kW	Tj = +2°C	COPd	3,99	-
Tj = +7°C	Pdh	2,6	kW	Tj = +7°C	COPd	5,34	-
Tj = +12°C	Pdh	2,2	kW	Tj = +12°C	COPd	7,15	-
Tj = bivalent temperature	Pdh	7,2	kW	Tj = bivalent temperature	COPd	2,59	-
Tj = operation limit temperature	Pdh	7,9	kW	Tj = operation limit temperature	COPd	2,56	-
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}	-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	active mod	le	Supplementary heater			•
Off mode	P _{OFF}	0,041	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,045	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,045	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.000	m ³ /h
sound power level, indoors/outdoors	L _{WA}	40 / 55	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:		-				
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	Industriestr. 3	3, 95359 Kasendorf, Germany			•
				the rated heat output Prated is equestern equal to the supplementary capac			eating
(**) If Cdh is not determined by m				· · · · · · · · · · · · · · · · · · ·		<u> </u>	
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