

This information was generated by the HP KEYMARK database on 23 Jun 2022

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Summary of	Paros 4	Reg. No.	041-K001-49
Certificate Holder			
Name	ait-deutschland GmbH		
Address	Industriestr. 3	Zip	95359
City	Kasendorf	Country	Germany
Certification Body	BRE Global Limited		
Subtype title	Paros 4		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R454B		
Mass of Refrigerant	1.64 kg		
Certification Date	10.06.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: alpha innotec - Paros 4

Configure model	
Model name	alpha innotec - Paros 4
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.47 kW	3.24 kW
El input	0.72 kW	1.05 kW
COP	4.84	3.08

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	41 dB(A)	41 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	180 %	138 %
Prated	5.00 kW	4.00 kW
SCOP	4.58	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.11 kW	3.84 kW
COP Tj = -7°C	2.47	2.01
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.83 kW	2.26 kW
COP Tj = +2°C	4.80	3.64
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.40 kW	2.21 kW
COP Tj = +7°C	6.07	4.56
Cdh Tj = +7 °C	0.980	0.980

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Pdh Tj = 12°C	2.42 kW	2.30 kW
COP Tj = 12°C	6.79	5.24
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	4.11 kW	3.84 kW
COP Tj = Tbiv	2.47	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.06 kW	2.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.27	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.94 kW	1.12 kW
Annual energy consumption Qhe	2257 kWh	2347 kWh

Model: NOVELAN - Polaris 4

Configure model	
Model name	NOVELAN - Polaris 4
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

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	Low temperature	Medium temperature
Heat output	3.47 kW	3.24 kW
El input	0.72 kW	1.05 kW
COP	4.84	3.08

EN 14511-4	
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Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

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