

Subtype Jersey 5

Certificate Holder	ait-deutschland GmbH
Address	Industriestr. 3
ZIP	95359
City	Kasendorf
Country	DE
Certification Body	BRE Global Limited
Subtype title	Jersey 5
Registration number	041-K001-47
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	1.5 kg
Certification Date	29.04.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

Model Jersey 5-1

Model name	Jersey 5-1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	134 %
Prated	5.60 kW	5.40 kW
SCOP	4.54	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.65 kW
COP Tj = -7°C	2.68	1.94
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.86 kW	2.81 kW
COP Tj = +2°C	4.37	3.34
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.85 kW	1.91 kW
COP Tj = +7°C	6.38	4.68
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.76 kW	1.73 kW
COP Tj = 12°C	7.67	6.35
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.91 kW	4.65 kW
COP Tj = Tbiv	2.68	1.94

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.86 kW	4.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	58 °C	58 °C
Poff	5 W	5 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.74 kW	0.58 kW
Annual energy consumption Qhe	2551 kWh	3257 kWh

Model Jabbah 5-1

Model name	Jabbah 5-1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	134 %
Prated	5.60 kW	5.40 kW
SCOP	4.54	3.43
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TOL	-10 °C	-10 °C
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COP Tj = -7°C	2.68	1.94
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Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.85 kW	1.91 kW
COP Tj = +7°C	6.38	4.68
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.76 kW	1.73 kW
COP Tj = 12°C	7.67	6.35
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.91 kW	4.65 kW
COP Tj = Tbiv	2.68	1.94

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.86 kW	4.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	58 °C	58 °C
Poff	5 W	5 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.74 kW	0.58 kW
Annual energy consumption Qhe	2551 kWh	3257 kWh