

Subtype Johnson ASHP AT220

Certificate Holder	EAS Electric Smart Technology SL.
Address	Poligono Industrial San Carlos Parcela 13 03370 Redovan
ZIP	
City	Alicante
Country	ES
Certification Body	BRE Global Limited
Subtype title	Johnson ASHP AT220
Registration number	041-K066-17
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.4 kg
Certification Date	06.10.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model Johnson AURUM-AT220T

Model name	Johnson AURUM-AT220T
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	3x400V 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	18.42 kW	18.30 kW
El input	4.01 kW	5.94 kW
COP	4.60	3.08

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	72 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	189 %	145 %
Prated	16.34 kW	16.40 kW
SCOP	4.79	3.71
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.46 kW	14.51 kW
COP Tj = -7°C	3.10	2.48
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.08 kW	9.01 kW
COP Tj = +2°C	4.71	3.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.69 kW	5.74 kW

COP Tj = +7°C	6.04	4.82
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.70 kW	5.47 kW
COP Tj = 12°C	7.91	6.91
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.46 kW	14.51 kW
COP Tj = Tbiv	3.10	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.34 kW	15.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	29 W	29 W
PSB	14 W	14 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.20 kW
Annual energy consumption Qhe	7052 kWh	9145 kWh