

Subtype HP_OWER 320RK

Certificate Holder	Unical AG S.p.A
Address	Via Padana Inferiore 52/C
ZIP	29012
City	Caorso (PC)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	HP_OWER 320RK
Registration number	ICIM-PDC-000285
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	5.1 kg
Certification Date	23.09.2024
Testing basis	V9

Model HP_OWER 320RK

Model name	HP_OWER 320RK
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	32.10 kW	31.80 kW
El input	7.84 kW	12.10 kW
COP	4.09	2.64

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	8.65 kW	
Cooling capacity	26.00	
EER	3.01	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	158 %	122 %
Prated	24.00 kW	25.00 kW
SCOP	4.02	3.14
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-10 °C

Pdh Tj = -7°C	21.30 kW	21.70 kW
COP Tj = -7°C	2.57	1.90
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	13.00 kW	13.30 kW
COP Tj = +2°C	3.94	3.09
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	11.60 kW	11.90 kW
COP Tj = +7°C	5.03	3.96
Cdh Tj = +7 °C	0.993	0.995
Pdh Tj = 12°C	13.50 kW	14.00 kW
COP Tj = 12°C	6.96	5.51
Cdh Tj = +12 °C	0.992	0.994
Pdh Tj = Tbiv	21.30 kW	21.70 kW
COP Tj = Tbiv	2.57	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.80 kW	19.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	5.20 kW	5.50 kW
Annual energy consumption Qhe	12369 kWh	16150 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	26.00 kW	
SEER	4.81	
Pdc Tj = 35°C	26.00 kW	
EER Tj = 35°C	3.01	
Pdc Tj = 30°C	19.10 kW	
EER Tj = 30°C	4.15	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	12.27 kW	
EER Tj = 25°C	5.35	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	12.56 kW	
EER Tj = 20°C	6.63	
Cdc Tj = 20 °C	0.900	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	3241 kWh