

Subtype HP_OWER ONE 120R/RT

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 ONE 120R/RT
Registration number	ICIM-PDC-000281
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.5 kg
Certification Date	23.09.2024
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model HP_OWER ONE 120R

Model name	HP_OWER ONE 120R
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	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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.80 kW	11.37 kW
El input	2.73 kW	4.10 kW
COP	4.32	2.78

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	176 %	131 %
Prated	10.00 kW	10.00 kW
SCOP	4.47	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C

Pdh Tj = -7°C	8.90 kW	8.50 kW
COP Tj = -7°C	2.88	2.08
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	5.82	4.24
Cdh Tj = +7 °C	0.974	0.981
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	7.81	5.31
Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
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	1.20 kW	1.30 kW
Annual energy consumption Qhe	4630 kWh	5941 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.51 kW	
SEER	4.43	
Pdc Tj = 35°C	8.51 kW	
EER Tj = 35°C	3.05	
Pdc Tj = 30°C	6.28 kW	
EER Tj = 30°C	4.03	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.98 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	0.978	
Pdc Tj = 20°C	4.23 kW	
EER Tj = 20°C	6.32	
Cdc Tj = 20 °C	0.972	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	1153 kWh

Model HP_OWER ONE 120RT

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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**

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Starting and operating test	passed

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