

Subtype HPR29009

Certificate Holder	Rinnai UK Ltd
Address	9 Christleton Ct
ZIP	WA7 1ST
City	Runcorn
Country	GB
Certification Body	ICIM S.p.A.
Subtype title	HPR29009
Registration number	ICIM-PDC-000302
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.75 kg
Certification Date	23.10.2024
Testing basis	V12

Model HPR29009		
Model name	HPR29009	
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	9.69 kW	9.10 kW
El input	2.05 kW	2.85 kW
COP	4.72	3.20
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.77 kW	
Cooling capacity	8.57	
EER	3.09	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	205 %	154 %
Prated	9.00 kW	8.90 kW
SCOP	5.19	3.93
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	8.00 kW	7.90 kW
COP Tj = -7°C	3.01	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.60 kW	4.80 kW
COP Tj = +2°C	5.14	3.85
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.10 kW	3.30 kW
COP Tj = +7°C	7.12	5.22
Cdh Tj = +7 °C	0.949	0.966
Pdh Tj = 12°C	3.20 kW	4.00 kW
COP Tj = 12°C	9.27	7.52
Cdh Tj = +12 °C	0.935	0.958
Pdh Tj = Tbiv	8.00 kW	7.90 kW
COP Tj = Tbiv	3.01	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.30 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	68 °C	68 °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	Electricity	Electricity
Supplementary Heater: PSUP	1.70 kW	1.90 kW
Annual energy consumption Qhe	3581 kWh	4664 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.57 kW	
SEER	5.41	
Pdc Tj = 35°C	8.57 kW	
EER Tj = 35°C	3.09	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	6.15 kW	
EER Tj = 30°C	4.41	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.72 kW	
EER Tj = 25°C	6.06	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	2.95 kW	
EER Tj = 20°C	8.87	
Cdc Tj = 20 °C	0.934	
Poff	22 W	

PTO	0 W
PSB	28 W
PCK	0 W
Annual energy consumption Qce	950 kWh