

Subtype HPR290240

Certificate Holder	Rinnai UK Ltd
Address	9 Christleton Ct
ZIP	WA7 1ST
City	Runcorn
Country	GB
Certification Body	ICIM S.p.A.
Subtype title	HPR290240
Registration number	ICIM-PDC-000307
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	3.15 kg
Certification Date	23.10.2024
Testing basis	V12

Model HPR290240

Model name	HPR290240
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	40.10 kW	38.00 kW
El input	9.80 kW	13.10 kW
COP	4.10	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	9.20 kW	
Cooling capacity	28.90	
EER	3.14	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	74 dB(A)	74 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	160 %	134 %
Prated	39.00 kW	38.00 kW
SCOP	4.09	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	34.70 kW	33.60 kW
COP Tj = -7°C	2.53	1.87
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	21.20 kW	20.50 kW
COP Tj = +2°C	3.72	3.23
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	18.30 kW	17.40 kW
COP Tj = +7°C	6.12	5.24
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	21.00 kW	20.60 kW
COP Tj = 12°C	7.54	6.87
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	34.70 kW	33.60 kW
COP Tj = Tbiv	2.53	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.00 kW	28.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	78 °C	78 °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	9.00 kW	9.70 kW
Annual energy consumption Qhe	19828 kWh	22836 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	28.90 kW	
SEER	4.86	
Pdc Tj = 35°C	28.90 kW	
EER Tj = 35°C	3.14	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	21.20 kW	
EER Tj = 30°C	4.14	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	17.80 kW	
EER Tj = 25°C	5.29	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	18.70 kW	
EER Tj = 20°C	6.29	
Cdc Tj = 20 °C	1.000	
Poff	22 W	

PTO	0 W
PSB	28 W
PCK	0 W
Annual energy consumption Qce	3565 kWh