

## Subtype HPiH3221/26

Certificate Holder	Rinnai UK Ltd
Address	9 Christleton Ct
ZIP	WA7 1ST
City	Runcorn
Country	GB
Certification Body	ICIM S.p.A.
Subtype title	HPiH3221/26
Registration number	ICIM-PDC-000295
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	4.3 kg
Certification Date	23.10.2024
Testing basis	V9

Model HPiH3221		
Model name	HPiH3221	
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	21.30 kW	19.80 kW
El input	4.92 kW	7.51 kW
COP	4.33	2.64
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	5.86 kW	
Cooling capacity	17.70	
EER	3.02	
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
ηs	165 %	122 %
Prated	20.00 kW	19.00 kW
SCOP	4.20	3.14
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-10 °C

Pdh Tj = -7°C	17.30 kW	17.00 kW
COP Tj = -7°C	2.54	1.86
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	10.60 kW	10.50 kW
COP Tj = +2°C	4.24	3.13
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	9.30 kW	9.20 kW
COP Tj = +7°C	5.15	3.94
Cdh Tj = +7 °C	0.992	0.995
Pdh Tj = 12°C	10.90 kW	10.80 kW
COP Tj = 12°C	7.08	5.51
Cdh Tj = +12 °C	0.990	0.994
Pdh Tj = Tbiv	17.30 kW	17.00 kW
COP Tj = Tbiv	2.54	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.50 kW	15.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.31	1.65
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	4.50 kW	3.90 kW
Annual energy consumption Qhe	9608 kWh	12663 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	17.67 kW	
SEER	4.44	
Pdc Tj = 35°C	17.70 kW	
EER Tj = 35°C	3.02	
Pdc Tj = 30°C	12.94 kW	
EER Tj = 30°C	4.03	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	8.82 kW	
EER Tj = 25°C	4.89	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	9.53 kW	
EER Tj = 20°C	5.94	
Cdc Tj = 20 °C	0.900	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	2389 kWh

Model HPiH3226		
Model name	HPiH3226	
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	26.00 kW	25.10 kW
El input	6.44 kW	9.51 kW
COP	4.04	2.64
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	6.19 kW	
Cooling capacity	18.69	
EER	3.02	
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
ηs	155 %	123 %
Prated	20.00 kW	19.00 kW
SCOP	3.95	3.14
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-10 °C

Pdh Tj = -7°C	17.40 kW	17.00 kW
COP Tj = -7°C	2.49	1.89
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	10.60 kW	10.50 kW
COP Tj = +2°C	3.93	3.09
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	9.30 kW	9.30 kW
COP Tj = +7°C	4.88	4.03
Cdh Tj = +7 °C	0.992	0.993
Pdh Tj = 12°C	10.70 kW	10.90 kW
COP Tj = 12°C	6.53	5.62
Cdh Tj = +12 °C	0.991	0.992
Pdh Tj = Tbiv	17.40 kW	17.00 kW
COP Tj = Tbiv	2.49	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.40 kW	15.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.27	1.68
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	4.60 kW	3.70 kW
Annual energy consumption Qhe	10286 kWh	12652 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	18.69 kW	
SEER	4.55	
Pdc Tj = 35°C	18.69 kW	
EER Tj = 35°C	3.02	
Pdc Tj = 30°C	13.69 kW	
EER Tj = 30°C	4.15	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	9.00 kW	
EER Tj = 25°C	5.00	
Cdc Tj = 25 °C	0.900	
Pdc Tj = 20°C	9.74 kW	
EER Tj = 20°C	6.06	
Cdc Tj = 20 °C	0.900	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	2465 kWh