Subtype HRC70 20 kW

Certificate Holder	Intuis
Address	Rue de la République
ZIP	80210
City	Feuquières-en-Vimeu
Country	FR
Certification Body	Kiwa Nederland B.V.
Subtype title	HRC70 20 kW
Registration number	007-DP0188
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	26.04.2024
Testing basis	European KEYMARK Scheme for Heat Pumps (v11)

Model HRC70 20 kW /3 tri

Model name	HRC70 20 kW /3 tri
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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	10.90 kW	10.10 kW
El input	2.37 kW	3.16 kW
COP	4.60	3.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	164 %	129 %
Prated	17.00 kW	17.00 kW
SCOP	4.18	3.30
Tbiv	-6 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.90 kW	13.50 kW
COP Tj = -7°C	2.93	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.77 kW	8.47 kW
COP Tj = +2°C	4.27	3.38
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	11.12 kW	10.90 kW
COP Tj = +7°C	5.88	4.68

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	12.45 kW	12.21 kW
COP Tj = 12°C	6.56	5.91
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.11 kW	13.70 kW
COP Tj = Tbiv	3.00	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.21 kW	12.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	7 W	7 W
PTO	10 W	10 W
PSB	7 W	7 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.79 kW	4.17 kW
Annual energy consumption Qhe	8409 kWh	10652 kWh