Subtype HTi70 14 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	HTi70 14 kW
Registration number	007-DP0186
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.95 kg
Certification Date	06.05.2024
Testing basis	European KEYMARK Scheme for Heat Pumps (v11)

Model HTi70 14 kW mono

Model name	HTi70 14 kW mono
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	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	10.76 kW	10.75 kW
El input	2.25 kW	3.52 kW
COP	4.78	3.05

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	175 %	139 %
Prated	13.63 kW	12.91 kW
SCOP	4.45	3.55
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.33 kW	11.11 kW
COP Tj = -7°C	2.88	2.28
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.85 kW	7.46 kW
COP Tj = +2°C	4.14	3.47
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.71 kW	4.64 kW
COP Tj = +7°C	6.33	4.89

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.27 kW	3.03 kW
COP Tj = 12°C	8.35	5.95
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.01 kW	10.43 kW
COP Tj = Tbiv	3.29	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.92 kW	10.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	5 W	5 W
PTO	14 W	14 W
PSB	5 W	5 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.71 kW	2.14 kW
Annual energy consumption Qhe	6328 kWh	7514 kWh

Model HTi70 14kW tri	
Model name	HTi70 14kW 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	10.76 kW	10.75 kW
El input	2.25 kW	3.52 kW
COP	4.78	3.05

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	175 %	139 %
Prated	13.63 kW	12.91 kW
SCOP	4.44	3.55
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.33 kW	11.11 kW
COP Tj = -7°C	2.88	2.28
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.85 kW	7.46 kW
COP Tj = +2°C	4.14	3.47
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.71 kW	4.64 kW
COP Tj = +7°C	6.33	4.89

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.27 kW	3.03 kW
COP Tj = 12°C	8.35	5.95
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Pdh Tj = Tbiv	11.01 kW	10.43 kW
COP Tj = Tbiv	3.29	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.92 kW	10.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	5 W	5 W
PTO	14 W	14 W
PSB	5 W	5 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.71 kW	2.14 kW
Annual energy consumption Qhe	6328 kWh	7514 kWh