

Subtype Jäspi Inverter Nordic 12

Certificate Holder	Kaukora
Address	Tuotekatu 11
ZIP	FI-21200
City	Raisio
Country	FI
Certification Body	RISE CERT
Subtype title	Jäspi Inverter Nordic 12
Registration number	012-SC0654-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.6 kg
Testing laboratory	Danish Technological Institute (DTI), DK

Model Jäspi Inverter Nordic 12

Model name	Jäspi Inverter Nordic 12
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.54 kW	3.64 kW
El input	0.69 kW	1.18 kW
COP	5.12	3.08

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	148 %
Prated	8.00 kW	8.30 kW
SCOP	4.82	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.30 kW
COP Tj = -7°C	3.05	2.39
Pdh Tj = +2°C	4.70 kW	4.70 kW
COP Tj = +2°C	4.57	3.85
Pdh Tj = +7°C	3.10 kW	2.90 kW
COP Tj = +7°C	5.86	4.48
Pdh Tj = 12°C	3.60 kW	3.30 kW
COP Tj = 12°C	7.22	5.30
Pdh Tj = Tbiv	7.10 kW	7.30 kW

COP Tj = Tbiv	2.95	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.30 kW	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.39
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	7 W	7 W
PSB	25 W	25 W
PCK	37 W	37 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	0.50 kW
Annual energy consumption Qhe	3409 kWh	4529 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	159 %	130 %
Prated	9.30 kW	9.80 kW
SCOP	4.05	3.32
Tbiv	-12 °C	-12 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.70 kW	5.90 kW
COP Tj = -7°C	3.33	2.74
Pdh Tj = +2°C	3.40 kW	3.60 kW
COP Tj = +2°C	5.18	4.14
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	5.73	4.70
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	6.44	5.41
Pdh Tj = Tbiv	6.90 kW	7.30 kW
COP Tj = Tbiv	2.99	2.47
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.20 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.31	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	7 W	7 W

PSB	25 W	25 W
PCK	37 W	37 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.10 kW	3.80 kW
Annual energy consumption Q _{he}	5666 kWh	7239 kWh