

Subtype KITA LP 22 R290

Certificate Holder	Templari S.p.A.
Address	Via C. Battisti, n° 169
ZIP	35031
City	Abano Terme (PD)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	KITA LP 22 R290
Registration number	ICIM-PDC-000217
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	3.4 kg
Certification Date	02.11.2023

Model Unità esterna KITA-LP-22, 3Ph, vers. MONOBLOCCO R-290

Model name	Unità esterna KITA-LP-22, 3Ph, vers. MONOBLOCCO R-290
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Colder Climate
Reversibility	Yes
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	22.00 kW	20.97 kW
El input	4.87 kW	6.97 kW
COP	4.52	3.01

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	155 %
Prated	18.32 kW	17.10 kW
SCOP	5.17	3.94
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.21 kW	15.13 kW
COP Tj = -7°C	3.15	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.87 kW	9.21 kW
COP Tj = +2°C	4.99	3.77
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.34 kW	5.92 kW

COP Tj = +7°C	7.04	5.69
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.71 kW	4.54 kW
COP Tj = 12°C	9.31	7.59
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	16.21 kW	15.13 kW
COP Tj = Tbiv	3.15	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.64 kW	14.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	24 W	24 W
PTO	31 W	31 W
PSB	24 W	24 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.50 kW	2.50 kW
Annual energy consumption Qhe	7322 kWh	8972 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	179 %	139 %
Prated	16.16 kW	15.48 kW
SCOP	4.54	3.55
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.78 kW	9.37 kW
COP Tj = -7°C	3.76	2.91
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.96 kW	5.70 kW
COP Tj = +2°C	5.53	4.37
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.07 kW	4.08 kW
COP Tj = +7°C	7.40	6.19
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	9.31	8.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.19 kW	12.62 kW

COP Tj = Tbiv	2.74	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.02 kW	10.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	24 W	24 W
PTO	31 W	31 W
PSB	24 W	24 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.00 kW	5.00 kW
Annual energy consumption Qhe	8777 kWh	10750 kWh
Pdh Tj = -15°C (if TOL	13.19	12.62
COP Tj = -15°C (if TOL	2.74	1.97
Cdh Tj = -15 °C	0.900	0.900