Subtype KITA MP 14-16 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 MP 14-16 R290
Registration number	ICIM-PDC-000222
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.6 kg
Certification Date	02.11.2023

Model Unità esterna KITA-MP-14, 3Ph, vers. MONOBLOCCO R-290	
Model name	Unità esterna KITA-MP-14, 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	14.00 kW	12.64 kW
El input	2.85 kW	4.00 kW
COP	4.92	3.16

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	205 %	148 %
Prated	11.80 kW	10.95 kW
SCOP	5.19	3.76
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.44 kW	9.69 kW
COP Tj = -7°C	3.24	2.21
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.35 kW	5.90 kW
COP Tj = +2°C	5.04	3.74
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.08 kW	3.79 kW

COP Tj = +7°C	7.40	4.97
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.44 kW	3.33 kW
COP Tj = 12°C	7.64	6.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.44 kW	9.69 kW
COP Tj = Tbiv	3.24	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.52 kW	8.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	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	2.20 kW	2.20 kW
Annual energy consumption Qhe	4700 kWh	6013 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	173 %	131 %
Prated	10.29 kW	9.64 kW
SCOP	4.39	3.34
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.23 kW	5.91 kW
COP Tj = -7°C	3.72	2.81
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.79 kW	3.60 kW
COP Tj = +2°C	5.51	3.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.02 kW	3.04 kW
COP Tj = +7°C	6.14	5.64
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.44 kW	3.36 kW
COP Tj = 12°C	7.64	7.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.40 kW	7.87 kW

COP Tj = Tbiv	2.73	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	6.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.01	1.46
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	3.50 kW	3.50 kW
Annual energy consumption Qhe	5773 kWh	7107 kWh
Pdh Tj = -15°C (if TOL	8.40	7.87
COP Tj = -15°C (if TOL	2.73	2.08
Cdh Tj = -15 °C	0.900	0.900

Model Unità esterna KITA-MP-14, 1Ph, vers. MONOBLOCCO R-290	
Model name	Unità esterna KITA-MP-14, 1Ph, 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	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	14.00 kW	12.64 kW
El input	2.85 kW	4.00 kW
COP	4.92	3.16

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	205 %	148 %
Prated	11.80 kW	10.95 kW
SCOP	5.19	3.76
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.44 kW	9.69 kW
COP Tj = -7°C	3.24	2.21
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.35 kW	5.90 kW
COP Tj = +2°C	5.04	3.74
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.08 kW	3.79 kW

COP Tj = +7°C	7.40	4.97
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.44 kW	3.33 kW
COP Tj = 12°C	7.64	6.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.44 kW	9.69 kW
COP Tj = Tbiv	3.24	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.52 kW	8.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	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	2.20 kW	2.20 kW
Annual energy consumption Qhe	4700 kWh	6013 kWh

EN 12102-1 | Colder Climate		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Colder Climate		
	Low temperature	Medium temperature
ηs	173 %	131 %
Prated	10.29 kW	9.64 kW
SCOP	4.39	3.34
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.23 kW	5.91 kW
COP Tj = -7°C	3.72	2.81
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.79 kW	3.60 kW
COP Tj = +2°C	5.51	3.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.02 kW	3.04 kW
COP Tj = +7°C	6.14	5.64
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.44 kW	3.36 kW
COP Tj = 12°C	7.64	7.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.40 kW	7.87 kW

COP Tj = Tbiv	2.73	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	6.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.01	1.46
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	3.50 kW	3.50 kW
Annual energy consumption Qhe	5773 kWh	7107 kWh
Pdh Tj = -15°C (if TOL	8.40	7.87
COP Tj = -15°C (if TOL	2.73	2.08
Cdh Tj = -15 °C	0.900	0.900

Model Unità esterna KITA-MP-16, 1Ph, vers. MONOBLOCCO R-290	
Model name	Unità esterna KITA-MP-16, 1Ph, 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	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	16.00 kW	14.00 kW
El input	3.55 kW	4.27 kW
COP	4.51	3.28

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	202 %	148 %
Prated	12.67 kW	10.72 kW
SCOP	5.13	3.76
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.20 kW	9.49 kW
COP Tj = -7°C	3.01	2.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.82 kW	5.77 kW
COP Tj = +2°C	5.09	3.82
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.38 kW	3.71 kW

COP Tj = +7°C	6.88	4.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	8.90	6.92
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.20 kW	9.49 kW
COP Tj = Tbiv	3.01	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.49 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.85
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	5106 kWh	5891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	178 %	132 %
Prated	11.60 kW	11.14 kW
SCOP	4.52	3.38
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.02 kW	6.74 kW
COP Tj = -7°C	3.67	2.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.27 kW	4.10 kW
COP Tj = +2°C	5.58	4.03
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.14 kW	3.03 kW
COP Tj = +7°C	8.05	5.32
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.46 kW	3.40 kW
COP Tj = 12°C	8.90	7.39
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.47 kW	9.08 kW

COP Tj = Tbiv	2.76	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.40 kW	6.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.95	1.42
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	4.00 kW	4.00 kW
Annual energy consumption Qhe	6320 kWh	8113 kWh
Pdh Tj = -15°C (if TOL	9.47	9.08
COP Tj = -15°C (if TOL	2.76	2.20
Cdh Tj = -15 °C	0.900	0.900

Model Unità esterna KITA-MP-16, 3Ph, vers. MONOBLOCCO R-290	
Model name	Unità esterna KITA-MP-16, 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	16.00 kW	14.00 kW
El input	3.55 kW	4.27 kW
COP	4.51	3.28

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	202 %	148 %
Prated	12.67 kW	10.72 kW
SCOP	5.13	3.76
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.20 kW	9.49 kW
COP Tj = -7°C	3.01	2.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.82 kW	5.77 kW
COP Tj = +2°C	5.09	3.82
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.38 kW	3.71 kW

COP Tj = +7°C	6.88	4.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	8.90	6.98
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.20 kW	9.49 kW
COP Tj = Tbiv	3.01	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.49 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.85
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	5106 kWh	5891 kWh

EN 12102-1 | Colder Climate		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Colder Climate		
	Low temperature	Medium temperature
ηs	178 %	132 %
Prated	11.60 kW	11.14 kW
SCOP	4.52	3.38
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.02 kW	6.74 kW
COP Tj = -7°C	3.67	2.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.27 kW	4.10 kW
COP Tj = +2°C	5.58	4.03
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.14 kW	3.03 kW
COP Tj = +7°C	8.05	5.32
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.46 kW	3.40 kW
COP Tj = 12°C	8.90	7.39
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.47 kW	9.08 kW

COP Tj = Tbiv	2.76	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.40 kW	6.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.95	1.42
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	4.00 kW	4.00 kW
Annual energy consumption Qhe	6320 kWh	8113 kWh
Pdh Tj = -15°C (if TOL	9.47	9.08
COP Tj = -15°C (if TOL	2.76	2.20
Cdh Tj = -15 °C	0.900	0.900