

Subtype KITA LP 26-28-32-35 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 26-28-32-35 R290
Registration number	ICIM-PDC-000218
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	3.5 kg
Certification Date	02.11.2023

**Model Unità esterna KITA-LP-26, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-LP-26, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	26.18 kW	24.73 kW
EI input	5.16 kW	7.25 kW
COP	5.08	3.41

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	218 %	163 %
Prated	22.02 kW	21.17 kW
SCOP	5.51	4.15
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.48 kW	18.73 kW
COP Tj = -7°C	3.43	2.42
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	11.86 kW	11.40 kW
COP Tj = +2°C	5.48	4.16
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.87 kW	9.47 kW
COP Tj = +7°C	7.24	5.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.51 kW	9.24 kW
COP Tj = 12°C	10.33	8.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	19.48 kW	18.73 kW
COP Tj = Tbiv	3.43	2.42

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.08 kW	17.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.12	2.14
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	3.10 kW	3.60 kW
Annual energy consumption Qhe	8251 kWh	10546 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Colder Climate**

	Low temperature	Medium temperature
ηs	185 %	139 %
Prated	19.57 kW	19.01 kW
SCOP	4.70	3.54
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	11.79 kW	11.51 kW
COP Tj = -7°C	4.05	2.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	11.13 kW	10.74 kW
COP Tj = +2°C	5.92	4.69
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.95 kW	9.66 kW
COP Tj = +7°C	7.90	6.23
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.51 kW	9.47 kW
COP Tj = 12°C	10.33	8.93
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	15.96 kW	15.51 kW
COP Tj = Tbiv	2.94	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.11 kW	12.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.57
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	6.00 kW	6.00 kW
Annual energy consumption Qhe	10261 kWh	13224 kWh
Pdh Tj = -15°C (if TOL)	15.96	15.51
COP Tj = -15°C (if TOL)	2.94	2.12
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-LP-28, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-LP-28, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	28.11 kW	26.59 kW
EI input	5.99 kW	8.44 kW
COP	4.69	3.15

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	216 %	162 %
Prated	23.67 kW	22.80 kW
SCOP	5.46	4.13
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	20.94 kW	20.17 kW
COP Tj = -7°C	3.36	2.36
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	12.74 kW	12.28 kW
COP Tj = +2°C	5.41	4.14
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.87 kW	9.47 kW
COP Tj = +7°C	7.26	5.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.50 kW	9.24 kW
COP Tj = 12°C	10.30	8.12
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	20.94 kW	20.17 kW
COP Tj = Tbiv	3.36	2.36

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.35 kW	18.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.06	2.09
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	8949 kWh	11400 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Colder Climate**

	Low temperature	Medium temperature
ηs	185 %	143 %
Prated	21.05 kW	20.53 kW
SCOP	4.71	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	12.74 kW	12.43 kW
COP Tj = -7°C	4.03	3.06
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	11.13 kW	10.74 kW
COP Tj = +2°C	5.92	4.69
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.95 kW	9.66 kW
COP Tj = +7°C	7.74	6.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.50 kW	9.33 kW
COP Tj = 12°C	10.30	8.77
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	17.17 kW	16.75 kW
COP Tj = Tbiv	2.90	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.16 kW	13.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.27	1.55
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	6.50 kW	6.50 kW
Annual energy consumption Qhe	11027 kWh	13844 kWh
Pdh Tj = -15°C (if TOL)	17.17	16.75
COP Tj = -15°C (if TOL)	2.90	2.08
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-LP-32, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-LP-32, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	32.22 kW	30.38 kW
EI input	7.14 kW	10.09 kW
COP	4.51	3.01

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	205 %	157 %
Prated	27.26 kW	26.28 kW
SCOP	5.22	4.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	24.12 kW	23.25 kW
COP Tj = -7°C	3.21	2.27
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	14.68 kW	14.15 kW
COP Tj = +2°C	5.14	3.99
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	9.44 kW	9.55 kW
COP Tj = +7°C	6.87	5.31
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.60 kW	9.30 kW
COP Tj = 12°C	9.45	7.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	24.12 kW	23.25 kW
COP Tj = Tbiv	3.21	2.27

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.33 kW	21.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.00
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	4.60 kW	4.60 kW
Annual energy consumption Qhe	10791 kWh	13575 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Colder Climate**

	Low temperature	Medium temperature
ηs	180 %	141 %
Prated	24.31 kW	23.69 kW
SCOP	4.56	3.60
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	14.71 kW	14.34 kW
COP Tj = -7°C	3.87	2.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	11.27 kW	10.83 kW
COP Tj = +2°C	5.69	4.59
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	10.05 kW	9.73 kW
COP Tj = +7°C	7.34	6.04
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.60 kW	9.40 kW
COP Tj = 12°C	9.45	8.39
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	19.83 kW	19.32 kW
COP Tj = Tbiv	2.79	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.39 kW	16.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.49
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	7.50 kW	7.50 kW
Annual energy consumption Qhe	13136 kWh	16239 kWh
Pdh Tj = -15°C (if TOL)	19.83	19.32
COP Tj = -15°C (if TOL)	2.79	1.99
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-LP-35, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-LP-35, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	35.00 kW	33.13 kW
EI input	7.97 kW	11.42 kW
COP	4.39	2.90

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	205 %	158 %
Prated	29.75 kW	28.70 kW
SCOP	5.20	4.03
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	26.32 kW	25.39 kW
COP Tj = -7°C	3.16	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	16.02 kW	15.45 kW
COP Tj = +2°C	5.10	3.98
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	10.30 kW	9.93 kW
COP Tj = +7°C	6.85	5.64
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.57 kW	9.30 kW
COP Tj = 12°C	9.77	7.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	26.32 kW	25.39 kW
COP Tj = Tbiv	3.16	2.20

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	24.36 kW	23.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	1.95
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	11827 kWh	14772 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

**EN 14825 | Colder Climate**

	Low temperature	Medium temperature
ηs	182 %	141 %
Prated	26.53 kW	25.96 kW
SCOP	4.62	3.60
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	16.06 kW	15.71 kW
COP Tj = -7°C	3.86	2.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	11.24 kW	10.83 kW
COP Tj = +2°C	5.79	4.59
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	10.03 kW	9.73 kW
COP Tj = +7°C	7.49	6.40
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.57 kW	9.40 kW
COP Tj = 12°C	9.77	8.37
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	21.65 kW	21.18 kW
COP Tj = Tbiv	2.74	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.99 kW	17.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	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	8.00 kW	8.00 kW
Annual energy consumption Qhe	14156 kWh	17781 kWh
Pdh Tj = -15°C (if TOL)	21.65	21.18
COP Tj = -15°C (if TOL)	2.74	1.93
Cdh Tj = -15 °C	0.900	0.900