

## Subtype KITA LP PLUS 35-40 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 PLUS 35-40 R290
Registration number	ICIM-PDC-000219
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	4.5 kg
Certification Date	02.11.2023

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

Model name	Unità esterna KITA-LP Plus-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 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
$\eta_s$	226 %	164 %
Prated	29.00 kW	27.73 kW
SCOP	5.71	4.17
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	25.65 kW	24.53 kW
COP Tj = -7°C	3.26	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	15.61 kW	14.93 kW
COP Tj = +2°C	5.86	4.21
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	11.41 kW	10.90 kW
COP Tj = +7°C	7.43	5.53
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	11.15 kW	10.78 kW
COP Tj = 12°C	10.58	8.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	25.65 kW	24.53 kW
COP Tj = Tbiv	3.26	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	23.46 kW	22.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	2.07
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	5.20 kW	5.20 kW
Annual energy consumption Qhe	10497 kWh	13736 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
$\eta_s$	194 %	146 %
Prated	25.52 kW	24.62 kW
SCOP	4.92	3.72
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	15.45 kW	14.90 kW
COP Tj = -7°C	4.13	3.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	12.60 kW	12.27 kW
COP Tj = +2°C	6.43	4.89
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	11.57 kW	11.13 kW
COP Tj = +7°C	8.04	6.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	11.15 kW	10.89 kW
COP Tj = 12°C	10.58	8.88
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	20.82 kW	20.09 kW
COP Tj = Tbiv	2.79	2.06
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.11 kW	16.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.24	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	8.00 kW	8.00 kW
Annual energy consumption Q <sub>he</sub>	12798 kWh	16325 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL	20.82	20.09
COP T <sub>j</sub> = -15°C (if TOL	2.79	2.06
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.900	0.900

## Model Unità esterna KITA-LP Plus-40, 3Ph, vers. MONOBLOCCO R-290

Model name	Unità esterna KITA-LP Plus-40, 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 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
$\eta_s$	219 %	162 %
Prated	33.25 kW	31.69 kW
SCOP	5.55	4.14
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.42 kW	28.04 kW
COP Tj = -7°C	3.10	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	17.90 kW	17.07 kW
COP Tj = +2°C	5.61	4.16
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	11.51 kW	10.97 kW
COP Tj = +7°C	7.40	5.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	11.12 kW	10.74 kW
COP Tj = 12°C	10.50	8.14
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	29.42 kW	28.04 kW
COP Tj = Tbiv	3.10	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	26.96 kW	25.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.99
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	5.80 kW	5.80 kW
Annual energy consumption Qhe	12369 kWh	15830 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
$\eta_s$	198 %	145 %
Prated	29.25 kW	28.23 kW
SCOP	5.03	3.72
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	17.70 kW	17.09 kW
COP Tj = -7°C	3.97	2.98
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	12.92 kW	12.60 kW
COP Tj = +2°C	6.99	4.92
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	11.60 kW	11.10 kW
COP Tj = +7°C	8.03	6.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	11.12 kW	10.87 kW
COP Tj = 12°C	10.50	8.83
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	23.86 kW	23.03 kW
COP Tj = Tbiv	2.68	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.63 kW	18.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.53
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	9.00 kW	9.00 kW
Annual energy consumption $Q_{he}$	14344 kWh	18728 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if TOL	23.86	23.03
COP $T_j = -15^{\circ}\text{C}$ (if TOL	2.68	1.98
$C_{dh} T_j = -15^{\circ}\text{C}$	0.900	0.900