

Subtype KITA XS 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 XS R290
Registration number	ICIM-PDC-000264
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.7 kg
Certification Date	05.08.2024
Testing basis	V11

**Model Unità esterna KITA-XS-7,5, 1Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-XS-7,5, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	7.50 kW	6.63 kW
El input	1.61 kW	2.10 kW
COP	4.66	3.15

**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
$\eta_s$	217 %	169 %
Prated	6.04 kW	5.56 kW
SCOP	5.51	4.31
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.34 kW	4.92 kW
COP Tj = -7°C	3.31	2.44
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.25 kW	2.99 kW
COP Tj = +2°C	5.42	4.29
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.09 kW	1.93 kW
COP Tj = +7°C	7.93	5.91
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.81 kW
COP Tj = 12°C	8.24	8.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.34 kW	4.92 kW
COP Tj = Tbiv	3.31	2.44

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.87 kW	4.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.19
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	1.10 kW	1.10 kW
Annual energy consumption Qhe	2266 kWh	2667 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
ηs	190 %	151 %
Prated	5.23 kW	4.90 kW
SCOP	4.82	3.84
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.17 kW	2.97 kW
COP Tj = -7°C	3.89	3.06
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.15 kW
COP Tj = +2°C	6.24	4.96
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.12 kW	2.02 kW
COP Tj = +7°C	8.66	6.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.86 kW
COP Tj = 12°C	8.24	8.56
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.27 kW	4.00 kW
COP Tj = Tbiv	2.86	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.41 kW	3.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.39	1.79
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	1.80 kW	1.80 kW
Annual energy consumption Qhe	2677 kWh	3143 kWh
Pdh Tj = -15°C (if TOL)	4.27	4.00
COP Tj = -15°C (if TOL)	2.86	2.20
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-XS-7,5, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-XS-7,5, 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	7.50 kW	6.63 kW
EI input	1.61 kW	2.10 kW
COP	4.66	3.15

**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
$\eta_s$	217 %	169 %
Prated	6.04 kW	5.56 kW
SCOP	5.51	4.31
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.34 kW	4.92 kW
COP Tj = -7°C	3.31	2.44
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.25 kW	2.99 kW
COP Tj = +2°C	5.42	4.29
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.09 kW	1.93 kW
COP Tj = +7°C	7.93	5.91
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.81 kW
COP Tj = 12°C	8.24	8.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.34 kW	4.92 kW
COP Tj = Tbiv	3.31	2.44

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.87 kW	4.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.19
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	1.10 kW	1.10 kW
Annual energy consumption Qhe	2266 kWh	2667 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
ηs	190 %	151 %
Prated	5.23 kW	4.90 kW
SCOP	4.82	3.84
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.17 kW	2.97 kW
COP Tj = -7°C	3.89	3.06
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.15 kW
COP Tj = +2°C	6.24	4.96
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.12 kW	2.02 kW
COP Tj = +7°C	8.66	6.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.86 kW
COP Tj = 12°C	8.24	8.56
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.27 kW	4.00 kW
COP Tj = Tbiv	2.86	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.41 kW	3.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.39	1.79
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	1.80 kW	1.80 kW
Annual energy consumption Qhe	2677 kWh	3143 kWh
Pdh Tj = -15°C (if TOL)	4.27	4.00
COP Tj = -15°C (if TOL)	2.86	2.20
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-XS-9, 1Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-XS-9, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	9.00 kW	8.13 kW
EI input	2.13 kW	2.81 kW
COP	4.23	2.89

**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
$\eta_s$	200 %	158 %
Prated	7.30 kW	6.94 kW
SCOP	5.07	4.03
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.46 kW	6.14 kW
COP Tj = -7°C	2.93	2.21
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.93 kW	3.74 kW
COP Tj = +2°C	5.08	3.99
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.53 kW	2.40 kW
COP Tj = +7°C	7.21	5.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.28 kW
COP Tj = 12°C	7.30	8.32
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.46 kW	6.14 kW
COP Tj = Tbiv	2.93	2.21

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	2.01
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	1.30 kW	1.30 kW
Annual energy consumption Qhe	2977 kWh	3558 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
ηs	177 %	140 %
Prated	6.31 kW	6.44 kW
SCOP	4.50	3.57
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.61 kW	3.77 kW
COP Tj = -7°C	3.62	2.83
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.33 kW	2.52 kW
COP Tj = +2°C	5.91	4.61
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.46 kW	2.34 kW
COP Tj = +7°C	7.66	6.19
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.17 kW
COP Tj = 12°C	7.30	8.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.15 kW	4.96 kW
COP Tj = Tbiv	2.53	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.11 kW	4.01 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.65
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	2.30 kW	2.30 kW
Annual energy consumption Qhe	3455 kWh	4193 kWh
Pdh Tj = -15°C (if TOL)	5.15	4.96
COP Tj = -15°C (if TOL)	2.53	2.01
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-XS-9, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-XS-9, 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	9.00 kW	8.13 kW
EI input	2.13 kW	2.81 kW
COP	4.23	2.89

**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
$\eta_s$	200 %	158 %
Prated	7.30 kW	6.94 kW
SCOP	5.07	4.03
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.46 kW	6.14 kW
COP Tj = -7°C	2.93	2.21
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.93 kW	3.74 kW
COP Tj = +2°C	5.08	3.99
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.53 kW	2.40 kW
COP Tj = +7°C	7.21	5.55
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.28 kW
COP Tj = 12°C	7.30	8.32
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.46 kW	6.14 kW
COP Tj = Tbiv	2.93	2.21

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	2.01
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	1.30 kW	1.30 kW
Annual energy consumption Qhe	2977 kWh	3558 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
ηs	177 %	140 %
Prated	6.31 kW	6.44 kW
SCOP	4.50	3.57
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.61 kW	3.77 kW
COP Tj = -7°C	3.62	2.83
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.33 kW	2.52 kW
COP Tj = +2°C	5.91	4.61
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.46 kW	2.34 kW
COP Tj = +7°C	7.66	6.19
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.17 kW
COP Tj = 12°C	7.30	8.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.15 kW	4.96 kW
COP Tj = Tbiv	2.53	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.11 kW	4.01 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.65
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	2.30 kW	2.30 kW
Annual energy consumption Qhe	3455 kWh	4193 kWh
Pdh Tj = -15°C (if TOL)	5.15	4.96
COP Tj = -15°C (if TOL)	2.53	2.01
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-X-7,5, 1Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-X-7,5, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	7.50 kW	6.63 kW
EI input	1.58 kW	2.06 kW
COP	4.75	3.21

**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
$\eta_s$	222 %	173 %
Prated	6.16 kW	5.67 kW
SCOP	5.61	4.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.45 kW	5.02 kW
COP Tj = -7°C	3.38	2.49
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.32 kW	3.05 kW
COP Tj = +2°C	5.52	4.38
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.13 kW	1.96 kW
COP Tj = +7°C	8.09	6.03
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.81 kW
COP Tj = 12°C	8.40	8.17
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.45 kW	5.02 kW
COP Tj = Tbiv	3.38	2.49

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.96 kW	4.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.23
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	1.11 kW	1.11 kW
Annual energy consumption Qhe	2267 kWh	2667 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
ηs	194 %	154 %
Prated	5.34 kW	5.00 kW
SCOP	4.91	3.92
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.23 kW	3.03 kW
COP Tj = -7°C	3.97	3.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.15 kW
COP Tj = +2°C	6.36	5.06
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.16 kW	2.02 kW
COP Tj = +7°C	8.83	7.04
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.86 kW
COP Tj = 12°C	8.40	8.73
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.36 kW	4.08 kW
COP Tj = Tbiv	2.92	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	3.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.83
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	1.80 kW	1.80 kW
Annual energy consumption Qhe	2678 kWh	3142 kWh
Pdh Tj = -15°C (if TOL)	4.36	4.08
COP Tj = -15°C (if TOL)	2.92	2.24
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-X-7,5, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-X-7,5, 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	7.50 kW	6.63 kW
EI input	1.58 kW	2.06 kW
COP	4.75	3.21

**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
$\eta_s$	222 %	173 %
Prated	6.16 kW	5.67 kW
SCOP	5.61	4.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.45 kW	5.02 kW
COP Tj = -7°C	3.38	2.49
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.32 kW	3.05 kW
COP Tj = +2°C	5.52	4.38
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.13 kW	1.96 kW
COP Tj = +7°C	8.09	6.03
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.81 kW
COP Tj = 12°C	8.40	8.17
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.45 kW	5.02 kW
COP Tj = Tbiv	3.38	2.49

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.96 kW	4.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.23
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	1.11 kW	1.11 kW
Annual energy consumption Qhe	2267 kWh	2667 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
ηs	194 %	154 %
Prated	5.34 kW	5.00 kW
SCOP	4.91	3.92
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.23 kW	3.03 kW
COP Tj = -7°C	3.97	3.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.15 kW
COP Tj = +2°C	6.36	5.06
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.16 kW	2.02 kW
COP Tj = +7°C	8.83	7.04
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.86 kW
COP Tj = 12°C	8.40	8.73
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.36 kW	4.08 kW
COP Tj = Tbiv	2.92	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	3.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.83
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	1.80 kW	1.80 kW
Annual energy consumption Qhe	2678 kWh	3142 kWh
Pdh Tj = -15°C (if TOL)	4.36	4.08
COP Tj = -15°C (if TOL)	2.92	2.24
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-X-9, 1Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-X-9, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	9.00 kW	8.13 kW
EI input	2.09 kW	2.76 kW
COP	4.31	2.95

**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
$\eta_s$	204 %	161 %
Prated	7.45 kW	7.02 kW
SCOP	5.16	4.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.59 kW	6.21 kW
COP Tj = -7°C	2.99	2.25
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.01 kW	3.78 kW
COP Tj = +2°C	5.17	4.06
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.58 kW	2.43 kW
COP Tj = +7°C	7.34	5.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.28 kW
COP Tj = 12°C	7.44	8.48
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.59 kW	6.21 kW
COP Tj = Tbiv	2.99	2.25

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.02 kW	5.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.05
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	1.50 kW	1.50 kW
Annual energy consumption Qhe	2982 kWh	3533 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
ηs	181 %	144 %
Prated	6.43 kW	6.20 kW
SCOP	4.59	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.89 kW	3.75 kW
COP Tj = -7°C	3.69	2.89
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.37 kW	2.28 kW
COP Tj = +2°C	6.03	4.70
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.46 kW	2.34 kW
COP Tj = +7°C	7.81	6.31
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.17 kW
COP Tj = 12°C	7.44	8.36
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.25 kW	5.05 kW
COP Tj = Tbiv	2.58	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.19 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.12	1.68
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	3453 kWh	4173 kWh
Pdh Tj = -15°C (if TOL)	5.25	5.05
COP Tj = -15°C (if TOL)	2.58	2.05
Cdh Tj = -15 °C	0.900	0.900

**Model Unità esterna KITA-X-9, 3Ph, vers. MONOBLOCCO R-290**

Model name	Unità esterna KITA-X-9, 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	9.00 kW	8.13 kW
EI input	2.09 kW	2.76 kW
COP	4.31	2.95

**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
$\eta_s$	204 %	161 %
Prated	7.45 kW	7.02 kW
SCOP	5.16	4.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.59 kW	6.21 kW
COP Tj = -7°C	2.99	2.25
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.01 kW	3.78 kW
COP Tj = +2°C	5.17	4.06
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.58 kW	2.43 kW
COP Tj = +7°C	7.34	5.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.28 kW
COP Tj = 12°C	7.44	8.48
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.59 kW	6.21 kW
COP Tj = Tbiv	2.99	2.25

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.02 kW	5.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.05
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	1.50 kW	1.50 kW
Annual energy consumption Qhe	2982 kWh	3533 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
ηs	181 %	144 %
Prated	6.43 kW	6.20 kW
SCOP	4.59	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.89 kW	3.75 kW
COP Tj = -7°C	3.69	2.89
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.37 kW	2.28 kW
COP Tj = +2°C	6.03	4.70
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.46 kW	2.34 kW
COP Tj = +7°C	7.81	6.31
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.93 kW	2.17 kW
COP Tj = 12°C	7.44	8.36
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.25 kW	5.05 kW
COP Tj = Tbiv	2.58	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.19 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.12	1.68
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	3453 kWh	4173 kWh
Pdh Tj = -15°C (if TOL)	5.25	5.05
COP Tj = -15°C (if TOL)	2.58	2.05
Cdh Tj = -15 °C	0.900	0.900