

Subtype KITA LP 22 R290

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|---------------------|-------------------------|
| 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

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|-------------------------------------|---|
| 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

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|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

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|-------------------------------|--------|
| 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 |

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|---|-------------|-------------|
| 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 |