

This information was generated by the HP KEYMARK database on 23 Jun 2022

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|---------------------|---|----------|-----------------|
| Summary of | Sphera EVO 2.0 Box 6.1, 7.1, 8.1 | Reg. No. | ICIM-PDC-000157 |
| Certificate Holder | | | |
| Name | Clivet s.p.a. | | |
| Address | Via camp lonc 25 c.ap. | Zip | I-32032 |
| City | z.i. Villapaiera - Feltre (BL) | Country | Italy |
| Certification Body | ICIM S.p.A. | | |
| Subtype title | Sphera EVO 2.0 Box 6.1, 7.1, 8.1 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass of Refrigerant | 1.84 kg | | |
| Certification Date | 15.04.2022 | | |
| Testing basis | HP KEYMARK certification scheme rules rev. n. 9 | | |

Model: SQKN-YEE 1 BC B + MiSAN-YEE 1 S 6.1

| Configure model | |
|-------------------------------------|-------------------------------------|
| Model name | SQKN-YEE 1 BC B + MiSAN-YEE 1 S 6.1 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 12.13 kW | 12.07 kW |
| El input | 2.42 kW | 3.89 kW |
| COP | 5.00 | 3.10 |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | dB(A) | 41 dB(A) |
| Sound power level outdoor | dB(A) | 63 dB(A) |

| EN 14825 | | |
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| | Low temperature | Medium temperature |
|---|------------------------|---------------------------|
| η_s | 197 % | 140 % |
| Prated | 12.08 kW | 11.70 kW |
| SCOP | 5.00 | 3.56 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.69 kW | 10.35 kW |
| COP Tj = -7°C | 3.07 | 2.05 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 6.57 kW | 6.62 kW |
| COP Tj = +2°C | 4.68 | 3.51 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 4.48 kW | 4.45 kW |
| COP Tj = +7°C | 6.90 | 4.77 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 3.67 kW | 3.04 kW |
| COP Tj = 12°C | 9.96 | 6.43 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 10.69 kW | 10.35 kW |
| COP Tj = Tbiv | 3.07 | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.95 kW | 9.59 kW |

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| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.79 | 1.85 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 65 °C | 65 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.13 kW | 2.11 kW |
| Annual energy consumption Qhe | 4994 kWh | 6793 kWh |

Model: SQKN-YEE 1 BC B + MiSAN-YEE 1 S 7.1

| Configure model | |
|-------------------------------------|-------------------------------------|
| Model name | SQKN-YEE 1 BC B + MiSAN-YEE 1 S 7.1 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 14.51 kW | 13.85 kW |
| El input | 3.09 kW | 4.53 kW |
| COP | 4.70 | 3.05 |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | dB(A) | 41 dB(A) |
| Sound power level outdoor | dB(A) | 64 dB(A) |

| EN 14825 | | |
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| | Low temperature | Medium temperature |
|---|------------------------|---------------------------|
| η_s | 193 % | 138 % |
| Prated | 13.94 kW | 12.57 kW |
| SCOP | 4.91 | 3.52 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.33 kW | 11.12 kW |
| COP Tj = -7°C | 2.87 | 2.06 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 7.97 kW | 6.82 kW |
| COP Tj = +2°C | 4.62 | 3.41 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 5.21 kW | 4.73 kW |
| COP Tj = +7°C | 7.07 | 4.85 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 3.67 kW | 3.03 kW |
| COP Tj = 12°C | 9.95 | 6.43 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 12.33 kW | 11.12 kW |
| COP Tj = Tbiv | 2.87 | 2.06 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.90 kW | 9.88 kW |

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|---|----------|----------|
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 2.69 | 1.86 |
| Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.900 | 0.900 |
| WTOL | 65 °C | 65 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 2.04 kW | 2.69 kW |
| Annual energy consumption Q_{he} | 5868 kWh | 7380 kWh |

Model: SQKN-YEE 1 BC B + MiSAN-YEE 1 S 8.1

| Configure model | |
|-------------------------------------|-------------------------------------|
| Model name | SQKN-YEE 1 BC B + MiSAN-YEE 1 S 8.1 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 16.01 kW | 16.00 kW |
| El input | 3.52 kW | 5.52 kW |
| COP | 4.55 | 2.90 |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | dB(A) | 41 dB(A) |
| Sound power level outdoor | dB(A) | 66 dB(A) |

| EN 14825 | | |
|----------|--|--|
|----------|--|--|

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| | Low temperature | Medium temperature |
|---|------------------------|---------------------------|
| η_s | 193 % | 136 % |
| Prated | 15.62 kW | 13.33 kW |
| SCOP | 4.89 | 3.48 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.82 kW | 11.79 kW |
| COP Tj = -7°C | 2.86 | 2.04 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 8.55 kW | 7.04 kW |
| COP Tj = +2°C | 4.59 | 3.34 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 5.88 kW | 4.72 kW |
| COP Tj = +7°C | 7.13 | 4.85 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 3.67 kW | 3.03 kW |
| COP Tj = 12°C | 9.95 | 6.43 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 13.82 kW | 11.79 kW |
| COP Tj = Tbiv | 2.86 | 2.04 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.64 kW | 10.67 kW |

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|---|----------|----------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.59 | 1.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 65 °C | 65 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 2.98 kW | 2.66 kW |
| Annual energy consumption Qhe | 6602 kWh | 7915 kWh |