

Subtype Sphera EVO 2.0 Tower 190L 4.1, 5.1

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|---------------------|---|
| Certificate Holder | Clivet s.p.a. |
| Address | Via camp long 25 c.ap. |
| ZIP | I-32032 |
| City | z.i. Villapaiera - Feltre (BL) |
| Country | IT |
| Certification Body | ICIM S.p.A. |
| Subtype title | Sphera EVO 2.0 Tower 190L 4.1, 5.1 |
| Registration number | ICIM-PDC-000167 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 1.65 kg |
| Certification Date | 10.06.2022 |
| Testing basis | HP KEYMARK certification scheme rules rev. n. 9 |

Model SQKN-YEE 1 TC A 190 + MiSAN-YEE 1 S 4.1

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|-------------------------------------|---|
| Model name | SQKN-YEE 1 TC A 190 + MiSAN-YEE 1 S 4.1 |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| 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 16147 | Average Climate**

| | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 116 % |
| COP | 2.70 |
| Heating up time | 02:10 h:min |
| Standby power input | 48.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 195 l |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.30 kW | 7.50 kW |
| El input | 1.56 kW | 2.35 kW |
| COP | 5.31 | 3.19 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | dB(A) | 41 dB(A) |
| Sound power level outdoor | dB(A) | 58 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 210 % | 146 % |
| Prated | 8.08 kW | 6.88 kW |
| SCOP | 5.32 | 3.72 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.15 kW | 6.09 kW |
| COP Tj = -7°C | 3.30 | 2.27 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |

| | | |
|---|----------|----------|
| Pdh Tj = +2°C | 4.65 kW | 3.94 kW |
| COP Tj = +2°C | 5.17 | 3.56 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 2.91 kW | 2.52 kW |
| COP Tj = +7°C | 7.08 | 4.70 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 1.85 kW | 1.72 kW |
| COP Tj = 12°C | 9.46 | 9.71 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 7.15 kW | 6.09 kW |
| COP Tj = Tbiv | 3.30 | 2.27 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.42 kW | 4.97 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.06 | 1.88 |
| 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 | 1.66 kW | 1.91 kW |
| Annual energy consumption Qhe | 3141 kWh | 3824 kWh |

Model SQKN-YEE 1 TC A 190 + MiSAN-YEE 1 S 5.1

| | |
|-------------------------------------|---|
| Model name | SQKN-YEE 1 TC A 190 + MiSAN-YEE 1 S 5.1 |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| 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 16147 | Average Climate**

| | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 116 % |
| COP | 2.70 |
| Heating up time | 02:10 h:min |
| Standby power input | 48.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 195 l |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 10.09 kW | 9.60 kW |
| El input | 2.01 kW | 3.10 kW |
| COP | 5.01 | 3.10 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | dB(A) | 41 dB(A) |
| Sound power level outdoor | dB(A) | 60 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 208 % | 143 % |
| Prated | 9.55 kW | 8.57 kW |
| SCOP | 5.27 | 3.73 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.45 kW | 7.58 kW |
| COP Tj = -7°C | 3.18 | 2.02 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |

| | | |
|---|----------|----------|
| Pdh Tj = +2°C | 5.23 kW | 4.44 kW |
| COP Tj = +2°C | 5.03 | 3.63 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 3.47 kW | 2.92 kW |
| COP Tj = +7°C | 7.33 | 4.95 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 1.96 kW | 1.71 kW |
| COP Tj = 12°C | 9.94 | 6.56 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 8.45 kW | 7.58 kW |
| COP Tj = Tbiv | 3.18 | 2.02 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.38 kW | 5.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.97 | 1.87 |
| 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 | 2.17 kW | 3.11 kW |
| Annual energy consumption Qhe | 3747 kWh | 4749 kWh |