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Login

Summary of	Sphera EVO 2.0 Tower 250L 4.1, 5.1	Reg. No.	ICIM-PDC-000169
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 Tower 250L 4.1, 5.1		
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		

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The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.

Model: SQKN-YEE 1 TC A 250 + MiSAN-YEE 1 S 4.1

Configure model	
Model name	SQKN-YEE 1 TC A 250 + MiSAN-YEE 1 S 4.1
Application	Heating + DHW + low 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	8.30 kW	7.50 kW
El input	1.56 kW	2.35 kW
COP	5.31	3.19

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	dB(A)	41 dB(A)
Sound power level outdoor	dB(A)	58 dB(A)

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EN 14825

	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

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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

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	02:10 h:min
Standby power input	44.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	265 l

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Model: SQKN-YEE 1 TC A 250 + MiSAN-YEE 1 S 5.1

Configure model	
Model name	SQKN-YEE 1 TC A 250 + MiSAN-YEE 1 S 5.1
Application	Heating + DHW + low 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	10.09 kW	9.60 kW
El input	2.01 kW	3.10 kW
COP	5.01	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)	60 dB(A)

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EN 14825

	Low temperature	Medium temperature
η_s	208 %	146 %
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	1.74 kW
COP Tj = 12°C	9.94	9.87
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.45 kW	7.58 kW
COP Tj = Tbiv	3.18	2.02

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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

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	02:10 h:min
Standby power input	50.0 W
Reference hot water temperature	44.0 °C
Mixed water at 40°C	265 l

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