

Subtype Sherpa Tower S3 E 8 - 10

Certificate Holder	Olimpia Splendid S.p.A.
Address	Via Industriale, 1/3
ZIP	25060
City	Cellatica (BS)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	Sherpa Tower S3 E 8 - 10
Registration number	ICIM-PDC-000186
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.65 kg
Certification Date	23.01.2023
Testing basis	Heat Pump KEYMARK V11

Model SHERPA TOWER S3 E 8

Model name	SHERPA TOWER S3 E 8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a
Phase-out Date	20.06.2027

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	2.97
Heating up time	01:00 h:min
Standby power input	40.0 W
Reference hot water temperature	43.7 °C
Mixed water at 40°C	230 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	8.30 kW	7.50 kW
El input	1.60 kW	2.36 kW
COP	5.20	3.18

EN 14511-2 | Cooling

El input	+7°C/+12°C 2.19 kW	+18°C/+23°C 1.66 kW
Cooling capacity	7.40	8.40
EER	3.38	5.05

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	205 %	131 %
P _{rated}	8.10 kW	6.60 kW
SCOP	5.22	3.37
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	7.18 kW	5.84 kW
COP T _j = -7°C	3.35	2.16
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	4.65 kW	3.76 kW
COP T _j = +2°C	5.09	3.30
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	2.90 kW	2.43 kW
COP T _j = +7°C	6.82	4.34
C _{dh T_j} = +7 °C	0.900	0.900
P _{dh T_j} = 12°C	1.63 kW	1.39 kW
COP T _j = 12°C	8.35	5.33
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	7.18 kW	5.84 kW
COP T _j = T _{biv}	3.35	2.17
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	6.44 kW	4.91 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	3.04	1.84
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.900	0.900
WT _{OL}	65 °C	65 °C
P _{off}	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.68 kW	1.69 kW
Annual energy consumption Q _{he}	3218 kWh	4054 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.40 kW	8.40 kW
SEER	5.83	8.95
P _{dc T_j} = 35°C	7.38 kW	8.37 kW
EER T _j = 35°C	3.39	5.09

Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	5.72 kW	6.47 kW
EER Tj = 30°C	4.71	7.02
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.62 kW	4.31 kW
EER Tj = 25°C	6.65	10.67
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.64 kW	1.80 kW
EER Tj = 20°C	8.55	13.61
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	761 kWh	563 kWh

Model SHERPA TOWER S3 E 10

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Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a
Phase-out Date	20.06.2027

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
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COP	2.97
Heating up time	01:00 h:min
Standby power input	40.0 W
Reference hot water temperature	43.7 °C
Mixed water at 40°C	230 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.00 kW	9.50 kW
El input	2.00 kW	3.06 kW
COP	5.00	3.10

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	2.08 kW	2.48 kW
EER	10.00	8.20
	4.80	3.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	205 %	136 %
P _{rated}	9.20 kW	7.70 kW
SCOP	5.20	3.47
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	8.10 kW	6.78 kW
COP T _j = -7°C	3.23	2.24
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	5.18 kW	4.28 kW
COP T _j = +2°C	5.01	3.42
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	3.32 kW	2.77 kW
COP T _j = +7°C	7.08	4.52
C _{dh T_j} = +7 °C	0.900	0.900
P _{dh T_j} = 12°C	1.65 kW	1.58 kW
COP T _j = 12°C	8.58	5.68
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	8.10 kW	6.78 kW
COP T _j = T _{biv}	3.23	2.24
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	7.40 kW	5.38 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.96	1.83
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.900	0.900
WT _{OL}	65 °C	65 °C
P _{off}	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.76 kW	2.28 kW
Annual energy consumption Q _{he}	3644 kWh	4567 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	8.70 kW	10.00 kW
SEER	5.98	8.78
P _{dc T_j} = 35°C	8.73 kW	10.01 kW
EER T _j = 35°C	3.21	4.64

Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	6.68 kW	7.71 kW
EER Tj = 30°C	4.47	6.45
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	4.26 kW	5.03 kW
EER Tj = 25°C	7.02	10.36
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.94 kW	2.32 kW
EER Tj = 20°C	9.54	14.98
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	873 kWh	683 kWh