

## Subtype Sherpa S2 12T/14T/16T

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 S2 12T/14T/16T
Registration number	ICIM-PDC-000129-00
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	4.2 kg
Certification Date	10.12.2021
Testing basis	Heat Pump KEYMARK rev9

## Model Sherpa S2 12T

Model name	Sherpa S2 12T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	12.10 kW	10.89 kW
El input	2.67 kW	3.87 kW
COP	4.53	2.81

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	128 %
Prated	12.17 kW	12.00 kW
SCOP	4.67	3.29
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.01 kW	11.07 kW
COP Tj = -7°C	2.78	1.98
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.68 kW	6.78 kW
COP Tj = +2°C	4.41	3.11

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.43 kW	4.21 kW
COP Tj = +7°C	6.55	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.08 kW	3.52 kW
COP Tj = 12°C	9.47	6.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.17 kW	11.54 kW
COP Tj = Tbiv	2.53	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.17 kW	11.37 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.64 kW
Annual energy consumption Qhe	5383 kWh	7537 kWh

## Model Sherpa S2 14T

Model name	Sherpa S2 14T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	14.00 kW	12.99 kW
El input	3.25 kW	4.50 kW
COP	4.31	2.89

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	130 %
Prated	14.11 kW	13.96 kW
SCOP	4.55	3.32
Tbiv	-9 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.09 kW	12.35 kW
COP Tj = -7°C	2.76	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.98 kW	7.54 kW
COP Tj = +2°C	4.32	3.09

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.06 kW	5.03 kW
COP Tj = +7°C	6.21	4.71
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.72 kW	3.42 kW
COP Tj = 12°C	8.61	6.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.56 kW	12.35 kW
COP Tj = Tbiv	2.59	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.24 kW	11.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	2.49 kW
Annual energy consumption Qhe	6405 kWh	8689 kWh

## Model Sherpa S2 16T

Model name	Sherpa S2 16T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	15.50 kW	14.33 kW
El input	3.70 kW	5.04 kW
COP	4.19	2.84

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	172 %	130 %
Prated	15.70 kW	14.96 kW
SCOP	4.37	3.32
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.89 kW	13.17 kW
COP Tj = -7°C	2.65	2.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.17 kW	8.40 kW
COP Tj = +2°C	4.16	3.11

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.58 kW	5.35 kW
COP Tj = +7°C	6.11	4.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.77 kW	3.60 kW
COP Tj = 12°C	7.95	7.04
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.89 kW	12.66 kW
COP Tj = Tbiv	2.65	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.06 kW	11.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.64 kW	3.66 kW
Annual energy consumption Qhe	7421 kWh	9312 kWh

## Model Sherpa Aquadue S2 12T

Model name	Sherpa Aquadue S2 12T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	12.10 kW	10.89 kW
El input	2.67 kW	3.87 kW
COP	4.53	2.81

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
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SCOP	4.67	3.29
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.01 kW	11.07 kW
COP Tj = -7°C	2.78	1.98
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.68 kW	6.78 kW
COP Tj = +2°C	4.41	3.11

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.43 kW	4.21 kW
COP Tj = +7°C	6.55	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.08 kW	3.52 kW
COP Tj = 12°C	9.47	6.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.17 kW	11.54 kW
COP Tj = Tbiv	2.53	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.17 kW	11.37 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.64 kW
Annual energy consumption Qhe	5383 kWh	7537 kWh

## Model Sherpa Aquadue S2 14T

Model name	Sherpa Aquadue S2 14T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	14.00 kW	12.99 kW
El input	3.25 kW	4.50 kW
COP	4.31	2.89

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	130 %
Prated	14.11 kW	13.96 kW
SCOP	4.55	3.32
Tbiv	-9 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.09 kW	12.35 kW
COP Tj = -7°C	2.76	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.98 kW	7.54 kW
COP Tj = +2°C	4.32	3.09

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.06 kW	5.03 kW
COP Tj = +7°C	6.21	4.71
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.72 kW	3.42 kW
COP Tj = 12°C	8.61	6.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.56 kW	12.35 kW
COP Tj = Tbiv	2.59	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.24 kW	11.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	2.49 kW
Annual energy consumption Qhe	6405 kWh	8689 kWh

## Model Sherpa Aquadue S2 16T

Model name	Sherpa Aquadue S2 16T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	15.50 kW	14.33 kW
El input	3.70 kW	5.04 kW
COP	4.19	2.84

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	172 %	130 %
Prated	15.70 kW	14.96 kW
SCOP	4.37	3.32
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.89 kW	13.17 kW
COP Tj = -7°C	2.65	2.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.17 kW	8.40 kW
COP Tj = +2°C	4.16	3.11

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.58 kW	5.35 kW
COP Tj = +7°C	6.11	4.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.77 kW	3.60 kW
COP Tj = 12°C	7.95	7.04
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.89 kW	12.66 kW
COP Tj = Tbiv	2.65	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.06 kW	11.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.64 kW	3.66 kW
Annual energy consumption Qhe	7421 kWh	9312 kWh

## Model Sherpa Tower S2 12T

Model name	Sherpa Tower S2 12T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	12.10 kW	10.89 kW
El input	2.67 kW	3.87 kW
COP	4.53	2.81

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	128 %
Prated	12.17 kW	12.00 kW
SCOP	4.67	3.29
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.01 kW	11.07 kW
COP Tj = -7°C	2.78	1.98
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.68 kW	6.78 kW
COP Tj = +2°C	4.41	3.11

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.43 kW	4.21 kW
COP Tj = +7°C	6.55	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.08 kW	3.52 kW
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WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.64 kW
Annual energy consumption Qhe	5383 kWh	7537 kWh

## Model Sherpa Tower S2 16T

Model name	Sherpa Tower S2 16T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	15.50 kW	14.33 kW
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### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
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### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	172 %	130 %
Prated	15.70 kW	14.96 kW
SCOP	4.37	3.32
Tbiv	-7 °C	-6 °C
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Pdh Tj = +7°C	5.58 kW	5.35 kW
COP Tj = +7°C	6.11	4.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.77 kW	3.60 kW
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WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.64 kW	3.66 kW
Annual energy consumption Qhe	7421 kWh	9312 kWh

## Model Sherpa Tower S2 14T

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Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	14.00 kW	12.99 kW
El input	3.25 kW	4.50 kW
COP	4.31	2.89

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
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### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	130 %
Prated	14.11 kW	13.96 kW
SCOP	4.55	3.32
Tbiv	-9 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.09 kW	12.35 kW
COP Tj = -7°C	2.76	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.98 kW	7.54 kW
COP Tj = +2°C	4.32	3.09

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.06 kW	5.03 kW
COP Tj = +7°C	6.21	4.71
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.72 kW	3.42 kW
COP Tj = 12°C	8.61	6.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.56 kW	12.35 kW
COP Tj = Tbiv	2.59	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.24 kW	11.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	2.49 kW
Annual energy consumption Qhe	6405 kWh	8689 kWh

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

## Outdoor Air/Water

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### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.10 kW	10.89 kW
El input	2.67 kW	3.87 kW
COP	4.53	2.81

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	128 %
Prated	12.17 kW	12.00 kW
SCOP	4.67	3.29
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.01 kW	11.07 kW
COP Tj = -7°C	2.78	1.98
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.68 kW	6.78 kW
COP Tj = +2°C	4.41	3.11

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.43 kW	4.21 kW
COP Tj = +7°C	6.55	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.08 kW	3.52 kW
COP Tj = 12°C	9.47	6.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.17 kW	11.54 kW
COP Tj = Tbiv	2.53	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.17 kW	11.37 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.64 kW
Annual energy consumption Qhe	5383 kWh	7537 kWh

## Model Sherpa Aquadue Tower S2 14T

Model name	Sherpa Aquadue Tower S2 14T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	14.00 kW	12.99 kW
El input	3.25 kW	4.50 kW
COP	4.31	2.89

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	130 %
Prated	14.11 kW	13.96 kW
SCOP	4.55	3.32
Tbiv	-9 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.09 kW	12.35 kW
COP Tj = -7°C	2.76	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.98 kW	7.54 kW
COP Tj = +2°C	4.32	3.09

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.06 kW	5.03 kW
COP Tj = +7°C	6.21	4.71
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.72 kW	3.42 kW
COP Tj = 12°C	8.61	6.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.56 kW	12.35 kW
COP Tj = Tbiv	2.59	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.24 kW	11.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	2.49 kW
Annual energy consumption Qhe	6405 kWh	8689 kWh

## Model Sherpa Aquadue Tower S2 16T

Model name	Sherpa Aquadue Tower S2 16T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.10.2025

## General data

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

## Outdoor Air/Water

### 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	15.50 kW	14.33 kW
El input	3.70 kW	5.04 kW
COP	4.19	2.84

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	172 %	130 %
Prated	15.70 kW	14.96 kW
SCOP	4.37	3.32
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.89 kW	13.17 kW
COP Tj = -7°C	2.65	2.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.17 kW	8.40 kW
COP Tj = +2°C	4.16	3.11

Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.58 kW	5.35 kW
COP Tj = +7°C	6.11	4.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.77 kW	3.60 kW
COP Tj = 12°C	7.95	7.04
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.89 kW	12.66 kW
COP Tj = Tbiv	2.65	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.06 kW	11.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	63 W	63 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.64 kW	3.66 kW
Annual energy consumption Qhe	7421 kWh	9312 kWh