

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
η_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
η_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

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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

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

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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
η_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**

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Defrost test	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
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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
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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 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

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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

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	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
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η_s	179 %	130 %
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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

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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
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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
η_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	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

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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

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

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Shutting off the heat transfer medium flow passed

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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

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	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
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SCOP	4.67	3.29
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Pdh Tj = +2°C	6.68 kW	6.78 kW
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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

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Off-peak product	n/a

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Supplementary Heater: PSUP	2.64 kW	3.66 kW
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COP	4.31	2.89

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Sound power level indoor	46 dB(A)	46 dB(A)
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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
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	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
η_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
η_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
η_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