Login

Summary of	Sherpa S2 12/14/16	Reg. No.	ICIM-PDC-000128-00
Certificate Holder			
Name	Olimpia Splendid S.p.A.		
Address	Via Industriale, 1/3	Zip	25060
City	Cellatica (BS)	Country	Italy
Certification Body	ICIM S.p.A.		
Subtype title	Sherpa S2 12/14/16		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.9 kg		
Certification Date	10.12.2021		
Testing basis	Heat Pump KEYMARK rev9		

Model: Sherpa S2 12

Configure model	
Model name	Sherpa S2 12
Application	Heating (medium 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	12.10 kW	10.26 kW
El input	2.74 kW	3.75 kW
COP	4.42	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	127 %
Prated	12.00 kW	12.28 kW
SCOP	4.46	3.24
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.97 kW	10.87 kW
COP Tj = -7°C	2.79	2.02
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.67 kW	6.99 kW
COP Tj = +2°C	4.20	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.17 kW	4.22 kW
COP Tj = +7°C	6.12	4.49
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.83 kW	2.50 kW
COP Tj = 12°C	7.87	5.97
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.87 kW
COP Tj = Tbiv	2.60	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.95 kW
Annual energy consumption Qhe	5558 kWh	7833 kWh

Model: Sherpa S2 14

Configure model	
Model name	Sherpa S2 14
Application	Heating (medium 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	14.00 kW	12.80 kW
El input	3.39 kW	4.55 kW
COP	4.13	2.81

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	71 dB(A)	71 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	168 %	128 %
Prated	13.88 kW	13.79 kW
SCOP	4.27	3.28
Tbiv	-6 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.27 kW	12.20 kW
COP Tj = -7°C	2.64	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.64 kW	7.74 kW
COP Tj = +2°C	4.07	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.95 kW	5.04 kW
COP Tj = +7°C	6.05	4.55
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.97 kW	2.70 kW
COP Tj = 12°C	7.71	6.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.74 kW	12.20 kW
COP Tj = Tbiv	2.71	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.22 kW	10.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.66 kW	3.51 kW
Annual energy consumption Qhe	6715 kWh	8688 kWh

Model: Sherpa S2 16

Configure model	
Model name	Sherpa S2 16
Application	Heating (medium 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	15.50 kW	14.89 kW
El input	3.82 kW	5.44 kW
COP	4.06	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
η_s	158 %	128 %
Prated	16.06 kW	14.99 kW
SCOP	4.01	3.26
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.49 kW	11.67 kW
COP Tj = -7°C	2.67	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.44 kW	8.13 kW
COP Tj = +2°C	3.93	3.09
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.59 kW	5.39 kW
COP Tj = +7°C	5.87	4.73
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.12 kW	2.81 kW
COP Tj = 12°C	7.38	6.59
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.97 kW	12.11 kW
COP Tj = Tbiv	2.86	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.66 kW	10.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.40 kW	4.81 kW
Annual energy consumption Qhe	8272 kWh	9491 kWh

Model: Sherpa Aquadue S2 12

Configure model	
Model name	Sherpa Aquadue S2 12
Application	Heating (medium 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	12.10 kW	10.26 kW
El input	2.74 kW	3.75 kW
COP	4.42	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	127 %
Prated	12.00 kW	12.28 kW
SCOP	4.46	3.24
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.97 kW	10.87 kW
COP Tj = -7°C	2.79	2.02
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.67 kW	6.99 kW
COP Tj = +2°C	4.20	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.17 kW	4.22 kW
COP Tj = +7°C	6.12	4.49
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.83 kW	2.50 kW
COP Tj = 12°C	7.87	5.97
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.87 kW
COP Tj = Tbiv	2.60	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.95 kW
Annual energy consumption Qhe	5558 kWh	7833 kWh

Model: Sherpa Aquadue S2 14

Configure model	
Model name	Sherpa Aquadue S2 14
Application	Heating (medium 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	14.00 kW	12.80 kW
El input	3.39 kW	4.55 kW
COP	4.13	2.81

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	71 dB(A)	71 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	168 %	128 %
Prated	13.88 kW	13.79 kW
SCOP	4.27	3.28
Tbiv	-6 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.27 kW	12.20 kW
COP Tj = -7°C	2.64	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.64 kW	7.74 kW
COP Tj = +2°C	4.07	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.95 kW	5.04 kW
COP Tj = +7°C	6.05	4.55
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.97 kW	2.70 kW
COP Tj = 12°C	7.71	6.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.74 kW	12.20 kW
COP Tj = Tbiv	2.71	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.22 kW	10.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.66 kW	3.51 kW
Annual energy consumption Qhe	6715 kWh	8688 kWh

Model: Sherpa Aquadue S2 16

Configure model	
Model name	Sherpa Aquadue S2 16
Application	Heating (medium 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	15.50 kW	14.89 kW
El input	3.82 kW	5.44 kW
COP	4.06	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	158 %	128 %
Prated	16.06 kW	14.99 kW
SCOP	4.01	3.26
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.49 kW	11.67 kW
COP Tj = -7°C	2.67	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.44 kW	8.13 kW
COP Tj = +2°C	3.93	3.09
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.59 kW	5.39 kW
COP Tj = +7°C	5.87	4.73
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.12 kW	2.81 kW
COP Tj = 12°C	7.38	6.59
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.97 kW	12.11 kW
COP Tj = Tbiv	2.86	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.66 kW	10.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.40 kW	4.81 kW
Annual energy consumption Qhe	8272 kWh	9491 kWh

Model: Sherpa Tower S2 12

Configure model	
Model name	Sherpa Tower S2 12
Application	Heating (medium 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	12.10 kW	10.26 kW
El input	2.74 kW	3.75 kW
COP	4.42	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	127 %
Prated	12.00 kW	12.28 kW
SCOP	4.46	3.24
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.97 kW	10.87 kW
COP Tj = -7°C	2.79	2.02
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.67 kW	6.99 kW
COP Tj = +2°C	4.20	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.17 kW	4.22 kW
COP Tj = +7°C	6.12	4.49
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.83 kW	2.50 kW
COP Tj = 12°C	7.87	5.97
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.87 kW
COP Tj = Tbiv	2.60	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.95 kW
Annual energy consumption Qhe	5558 kWh	7833 kWh

Model: Sherpa Tower S2 14

Configure model	
Model name	Sherpa Tower S2 14
Application	Heating (medium 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	14.00 kW	12.80 kW
El input	3.39 kW	4.55 kW
COP	4.13	2.81

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	71 dB(A)	71 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	168 %	128 %
Prated	13.88 kW	13.79 kW
SCOP	4.27	3.28
Tbiv	-6 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.27 kW	12.20 kW
COP Tj = -7°C	2.64	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.64 kW	7.74 kW
COP Tj = +2°C	4.07	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.95 kW	5.04 kW
COP Tj = +7°C	6.05	4.55
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.97 kW	2.70 kW
COP Tj = 12°C	7.71	6.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.74 kW	12.20 kW
COP Tj = Tbiv	2.71	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.22 kW	10.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.66 kW	3.51 kW
Annual energy consumption Qhe	6715 kWh	8688 kWh

Model: Sherpa Tower S2 16

Configure model	
Model name	Sherpa Tower S2 16
Application	Heating (medium 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	15.50 kW	14.89 kW
El input	3.82 kW	5.44 kW
COP	4.06	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
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EN 14825		
	Low temperature	**Medium temperature**
η_s	158 %	128 %
Prated	16.06 kW	14.99 kW
SCOP	4.01	3.26
Tbiv	-5 °C	-5 °C
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Pdh Tj = -7°C	12.49 kW	11.67 kW
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Pdh Tj = +2°C	8.44 kW	8.13 kW
COP Tj = +2°C	3.93	3.09
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.59 kW	5.39 kW
COP Tj = +7°C	5.87	4.73
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.12 kW	2.81 kW
COP Tj = 12°C	7.38	6.59
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.97 kW	12.11 kW
COP Tj = Tbiv	2.86	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.66 kW	10.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.40 kW	4.81 kW
Annual energy consumption Qhe	8272 kWh	9491 kWh

Model: Sherpa Aquadue Tower S2 12

Configure model	
Model name	Sherpa Aquadue Tower S2 12
Application	Heating (medium 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	12.10 kW	10.26 kW
El input	2.74 kW	3.75 kW
COP	4.42	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	127 %
Prated	12.00 kW	12.28 kW
SCOP	4.46	3.24
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.97 kW	10.87 kW
COP Tj = -7°C	2.79	2.02
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.67 kW	6.99 kW
COP Tj = +2°C	4.20	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.17 kW	4.22 kW
COP Tj = +7°C	6.12	4.49
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.83 kW	2.50 kW
COP Tj = 12°C	7.87	5.97
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.87 kW
COP Tj = Tbiv	2.60	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.95 kW
Annual energy consumption Qhe	5558 kWh	7833 kWh

Model: Sherpa Aquadue Tower S2 14

Configure model	
Model name	Sherpa Aquadue Tower S2 14
Application	Heating (medium 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	14.00 kW	12.80 kW
El input	3.39 kW	4.55 kW
COP	4.13	2.81

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	71 dB(A)	71 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	168 %	128 %
Prated	13.88 kW	13.79 kW
SCOP	4.27	3.28
Tbiv	-6 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.27 kW	21.20 kW
COP Tj = -7°C	2.64	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.64 kW	7.74 kW
COP Tj = +2°C	4.07	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.95 kW	5.04 kW
COP Tj = +7°C	6.05	4.55
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.97 kW	2.70 kW
COP Tj = 12°C	7.71	6.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.74 kW	12.20 kW
COP Tj = Tbiv	2.71	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.22 kW	10.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.66 kW	3.51 kW
Annual energy consumption Qhe	6715 kWh	8688 kWh

Model: Sherpa Aquadue Tower S2 16

Configure model	
Model name	Sherpa Aquadue Tower S2 16
Application	Heating (medium 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	15.50 kW	14.89 kW
El input	3.82 kW	5.44 kW
COP	4.06	2.74

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
η_s	158 %	128 %
Prated	16.06 kW	14.99 kW
SCOP	4.01	3.26
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.49 kW	11.67 kW
COP Tj = -7°C	2.67	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.44 kW	8.13 kW
COP Tj = +2°C	3.93	3.09
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.59 kW	5.39 kW
COP Tj = +7°C	5.87	4.73
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.12 kW	2.81 kW
COP Tj = 12°C	7.38	6.59
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.97 kW	12.11 kW
COP Tj = Tbiv	2.86	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.66 kW	10.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	78 W	78 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.40 kW	4.81 kW
Annual energy consumption Qhe	8272 kWh	9491 kWh