

Subtype Sheen EVO/EVO 2.0 - 10.1, 12.1, 14.1

Certificate Holder	Clivet s.p.a.
Address	Via camp lonc 25 c.ap.
ZIP	I-32032
City	z.i. Villapaiera - Feltre (BL)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	Sheen EVO/EVO 2.0 - 10.1, 12.1, 14.1
Registration number	ICIM-PDC-000060
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	7.9 kg
Certification Date	20.01.2020
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model WSAN-YSI 10.1

Model name	WSAN-YSI 10.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	10.01.2027

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	25.30 kW	4.80 kW
El input	6.07 kW	1.90 kW
COP	4.17	2.53

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	169 %	129 %
Prated	21.00 kW	7.00 kW
SCOP	4.30	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	18.30 kW	5.90 kW
COP Tj = -7°C	2.95	2.00
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	11.20 kW	3.70 kW
COP Tj = +2°C	4.10	3.18
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	7.20 kW	2.50 kW

COP Tj = +7°C	5.60	4.52
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	7.10 kW	1.10 kW
COP Tj = 12°C	6.82	5.09
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	20.70 kW	5.90 kW
COP Tj = Tbiv	2.73	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	20.70 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.90
WTOL	54 °C	49 °C
Poff	19 W	16 W
PTO	200 W	16 W
PSB	19 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	9946 kWh	4202 kWh

Model WSAN-YSI 12.1

Model name	WSAN-YSI 12.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	10.01.2027

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	28.20 kW	6.20 kW
El input	6.64 kW	2.38 kW
COP	4.25	2.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	76 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	129 %
Prated	22.00 kW	7.00 kW
SCOP	4.25	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.10 kW	5.90 kW
COP Tj = -7°C	2.92	2.00
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	11.60 kW	3.70 kW
COP Tj = +2°C	4.00	3.18
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	7.50 kW	2.50 kW

COP Tj = +7°C	5.65	4.52
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	7.10 kW	1.10 kW
COP Tj = 12°C	6.82	5.09
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	21.60 kW	5.90 kW
COP Tj = Tbiv	2.70	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.60 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	19 W	16 W
PTO	200 W	16 W
PSB	19 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	10500 kWh	4202 kWh

Model WSAN-YSI 14.1

Model name	WSAN-YSI 14.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	10.01.2027

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	32.00 kW	9.40 kW
El input	7.69 kW	3.30 kW
COP	4.16	2.85

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	76 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	127 %
Prated	24.00 kW	9.00 kW
SCOP	4.24	3.26
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	20.90 kW	7.70 kW
COP Tj = -7°C	2.86	1.98
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	12.70 kW	4.90 kW
COP Tj = +2°C	3.98	3.02
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	8.20 kW	3.20 kW

COP Tj = +7°C	5.75	4.67
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	7.10 kW	1.40 kW
COP Tj = 12°C	6.82	6.16
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	23.60 kW	7.70 kW
COP Tj = Tbiv	2.57	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	23.60 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	19 W	16 W
PTO	200 W	16 W
PSB	19 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	11514 kWh	5558 kWh

Model WiSAN-YSE1 EXC-SC 10.1

Model name	WiSAN-YSE1 EXC-SC 10.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	26.10 kW	23.00 kW
El input	5.82 kW	9.06 kW
COP	4.48	2.54

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	127 %
Prated	19.24 kW	16.78 kW
SCOP	4.54	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.18 kW	13.04 kW
COP Tj = -7°C	2.65	1.93
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	11.38 kW	9.50 kW
COP Tj = +2°C	4.72	3.25
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.42 kW	11.10 kW
COP Tj = +7°C	5.65	4.40

Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.75 kW	13.45 kW
COP Tj = 12°C	7.42	6.15
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	17.18 kW	14.20 kW
COP Tj = Tbiv	2.65	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.67 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.980
WTOL	35 °C	55 °C
Poff	50 W	50 W
PTO	100 W	100 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	7.63 kW
Annual energy consumption Qhe	8838 kWh	10709 kWh

Model WiSAN-YSE1 EXC-SC 12.1

Model name	WiSAN-YSE1 EXC-SC 12.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	30.50 kW	27.70 kW
El input	7.04 kW	11.50 kW
COP	4.33	2.40

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	74 dB(A)	74 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	126 %
Prated	22.50 kW	19.53 kW
SCOP	4.49	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.90 kW	15.95 kW
COP Tj = -7°C	2.63	1.94
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	12.43 kW	10.80 kW
COP Tj = +2°C	4.61	3.20
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	12.42 kW	11.47 kW
COP Tj = +7°C	5.68	4.41
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	14.76 kW	13.80 kW
COP Tj = 12°C	7.54	6.14
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	19.90 kW	16.52 kW
COP Tj = Tbiv	2.63	2.02

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.28 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.980
WTOL	35 °C	55 °C
Poff	50 W	50 W
PTO	100 W	100 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	5.21 kW	9.53 kW
Annual energy consumption Qhe	10358 kWh	12516 kWh

Model WiSAN-YSE1 EXC-SC 14.1

Model name	WiSAN-YSE1 EXC-SC 14.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	37.00 kW	32.60 kW
El input	8.86 kW	14.00 kW
COP	4.22	2.33

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	124 %
Prated	25.50 kW	22.97 kW
SCOP	4.44	3.19
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	22.60 kW	18.82 kW
COP Tj = -7°C	2.63	1.89
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	13.25 kW	12.44 kW
COP Tj = +2°C	4.50	3.15
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	12.44 kW	11.48 kW
COP Tj = +7°C	5.71	4.40
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	14.77 kW	13.82 kW
COP Tj = 12°C	7.51	6.36
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	22.60 kW	19.44 kW
COP Tj = Tbiv	2.63	1.96

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.38 kW	11.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.980
WTOL	35 °C	55 °C
Poff	50 W	50 W
PTO	100 W	100 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	7.17 kW	11.97 kW
Annual energy consumption Qhe	11895 kWh	14903 kWh

Model WiSAN-YSE1 EXC-EN 10.1

Model name	WiSAN-YSE1 EXC-EN 10.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	21.50 kW	17.60 kW
El input	4.76 kW	6.64 kW
COP	4.52	2.62

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	174 %	126 %
Prated	14.28 kW	14.49 kW
SCOP	4.41	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.63 kW	11.86 kW
COP Tj = -7°C	2.56	2.02
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	10.50 kW	9.50 kW
COP Tj = +2°C	4.72	3.20
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	12.42 kW	11.10 kW
COP Tj = +7°C	5.65	4.40
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	14.75 kW	13.45 kW
COP Tj = 12°C	7.42	6.15
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	12.63 kW	12.26 kW
COP Tj = Tbiv	2.56	2.09

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.39 kW	8.63 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.33	1.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	50 W	50 W
PTO	100 W	100 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	2.89 kW	5.86 kW
Annual energy consumption Qhe	6681 kWh	9272 kWh

Model WiSAN-YSE1 EXC-EN 12.1

Model name	WiSAN-YSE1 EXC-EN 12.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	24.30 kW	19.70 kW
El input	5.54 kW	7.70 kW
COP	4.40	2.56

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	172 %	126 %
Prated	17.18 kW	15.92 kW
SCOP	4.38	3.23
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.20 kW	13.03 kW
COP Tj = -7°C	2.50	1.98
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	10.57 kW	9.50 kW
COP Tj = +2°C	4.62	3.20
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	12.50 kW	11.47 kW
COP Tj = +7°C	2.60	4.41
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	14.82 kW	13.80 kW
COP Tj = 12°C	7.32	6.14
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	15.20 kW	13.47 kW
COP Tj = Tbiv	2.50	2.07

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.41 kW	9.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.39	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	50 W	50 W
PTO	100 W	100 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	2.77 kW	6.83 kW
Annual energy consumption Qhe	8100 kWh	10191 kWh

Model WiSAN-YSE1 EXC-EN 14.1

Model name	WiSAN-YSE1 EXC-EN 14.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	26.90 kW	21.80 kW
El input	6.17 kW	8.27 kW
COP	4.35	2.64

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	171 %	126 %
Prated	19.55 kW	17.21 kW
SCOP	4.35	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.29 kW	14.09 kW
COP Tj = -7°C	2.38	1.97
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	10.68 kW	9.31 kW
COP Tj = +2°C	4.59	3.19
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	12.52 kW	11.10 kW
COP Tj = +7°C	5.60	4.40
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	14.85 kW	13.45 kW
COP Tj = 12°C	7.30	6.15
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	17.29 kW	14.56 kW
COP Tj = Tbiv	2.38	2.00

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.06 kW	10.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.32	1.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	50 W	50 W
PTO	100 W	100 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	3.49 kW	7.00 kW
Annual energy consumption Qhe	9282 kWh	11062 kWh

Model WiSAN-YSE1 PRM-SC 10.1

Model name	WiSAN-YSE1 PRM-SC 10.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	27.90 kW	kW
El input	6.39 kW	kW
COP	4.36	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	169 %	
Prated	20.48 kW	
SCOP	4.29	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	18.12 kW	
COP Tj = -7°C	2.40	
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	11.61 kW	
COP Tj = +2°C	4.48	
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.42 kW	
COP Tj = +7°C	5.37	
Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.75 kW	
COP Tj = 12°C	7.12	
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	18.12 kW	
COP Tj = Tbiv	2.40	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980
WTOL	35 °C
Poff	50 W
PTO	100 W
PSB	50 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	2.90 kW
Annual energy consumption Qhe	9865 kWh

Model WiSAN-YSE1 PRM-SC 12.1

Model name	WiSAN-YSE1 PRM-SC 12.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	32.20 kW	
El input	8.05 kW	
COP	4.01	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	76 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	166 %	
Prated	23.40 kW	
SCOP	4.23	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	20.70 kW	
COP Tj = -7°C	2.50	
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	12.11 kW	
COP Tj = +2°C	4.34	
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.34 kW	
COP Tj = +7°C	5.39	
Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.65 kW	
COP Tj = 12°C	6.73	
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	20.70 kW	
COP Tj = Tbiv	2.50	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980
WTOL	35 °C
Poff	50 W
PTO	100 W
PSB	50 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	6.06 kW
Annual energy consumption Qhe	11432 kWh

Model WiSAN-YSE1 PRM-SC 14.1

Model name	WiSAN-YSE1 PRM-SC 14.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	38.00 kW	
El input	10.30 kW	
COP	3.70	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	77 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	162 %	
Prated	25.90 kW	
SCOP	4.11	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	22.95 kW	
COP Tj = -7°C	2.59	
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	13.09 kW	
COP Tj = +2°C	4.16	
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.39 kW	
COP Tj = +7°C	5.17	
Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.70 kW	
COP Tj = 12°C	6.44	
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	22.95 kW	
COP Tj = Tbiv	2.59	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980
WTOL	35 °C
Poff	50 W
PTO	100 W
PSB	50 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	7.45 kW
Annual energy consumption Qhe	13028 kWh

Model WiSAN-YSE1 PRM-EN 10.1

Model name	WiSAN-YSE1 PRM-EN 10.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	21.10 kW	
El input	4.86 kW	
COP	4.35	

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	164 %	
Prated	15.95 kW	
SCOP	4.18	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	14.11 kW	
COP Tj = -7°C	2.60	
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	10.50 kW	
COP Tj = +2°C	4.48	
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.42 kW	
COP Tj = +7°C	5.30	
Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.75 kW	
COP Tj = 12°C	6.51	
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	14.11 kW	

COP $T_j = T_{biv}$	2.60
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	13.07 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.50
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.980
WTOL	35 °C
P _{off}	50 W
PTO	100 W
PSB	50 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	2.88 kW
Annual energy consumption Q_{he}	7886 kWh

Model WiSAN-YSE1 PRM-EN 12.1

Model name	WiSAN-YSE1 PRM-EN 12.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	24.50 kW	
El input	5.79 kW	
COP	4.24	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	162 %	
Prated	18.60 kW	
SCOP	4.12	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	16.44 kW	
COP Tj = -7°C	2.43	
Cdh Tj = -7 °C	0.950	
Pdh Tj = +2°C	11.20 kW	
COP Tj = +2°C	4.38	
Cdh Tj = +2 °C	0.950	
Pdh Tj = +7°C	12.42 kW	
COP Tj = +7°C	5.30	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	14.75 kW	
COP Tj = 12°C	6.51	
Cdh Tj = +12 °C	0.950	
Pdh Tj = Tbiv	16.44 kW	
COP Tj = Tbiv	2.43	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950
WTOL	35 °C
Poff	50 W
PTO	100 W
PSB	50 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	3.22 kW
Annual energy consumption Qhe	9320 kWh

Model WiSAN-YSE1 PRM-EN 14.1

Model name	WiSAN-YSE1 PRM-EN 14.1
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	27.50 kW	
El input	6.51 kW	
COP	4.22	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	159 %	
Prated	20.60 kW	
SCOP	4.05	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	18.20 kW	
COP Tj = -7°C	2.30	
Cdh Tj = -7 °C	0.950	
Pdh Tj = +2°C	12.00 kW	
COP Tj = +2°C	4.28	
Cdh Tj = +2 °C	0.950	
Pdh Tj = +7°C	12.52 kW	
COP Tj = +7°C	5.22	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	14.85 kW	
COP Tj = 12°C	6.51	
Cdh Tj = +12 °C	0.950	
Pdh Tj = Tbiv	18.20 kW	
COP Tj = Tbiv	2.30	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.28
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950
WTOL	35 °C
Poff	50 W
PTO	100 W
PSB	50 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	3.48 kW
Annual energy consumption Qhe	10501 kWh