Subtype Sheen EVO/EVO 2.0 - 16.2, 18.2, 22.2

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 - 16.2, 18.2, 22.2
Registration number	ICIM-PDC-000061
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	14 kg
Certification Date	20.01.2020
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model WSAN-YSI 16.2

Model name	WSAN-YSI 16.2
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	48.60 kW	4.80 kW
El input	12.12 kW	1.90 kW
COP	4.01	2.53

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	84 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	154 %	129 %
Prated	31.00 kW	7.00 kW
SCOP	3.91	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	27.80 kW	5.90 kW
COP Tj = -7°C	2.72	2.00
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	16.90 kW	3.70 kW
COP Tj = +2°C	3.85	3.18
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	10.90 kW	2.50 kW

COP Tj = +7°C	4.90	4.52
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	14.20 kW	1.10 kW
COP Tj = 12°C	6.02	5.09
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	31.40 kW	5.90 kW
COP Tj = Tbiv	2.42	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	31.40 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	30 W	16 W
PTO	404 W	16 W
PSB	30 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	16591 kWh	4202 kWh

Model WSAN-YSI 18.2

Model name	WSAN-YSI 18.2
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	54.00 kW	6.20 kW
El input	13.47 kW	2.38 kW
COP	4.01	2.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	85 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	153 %	129 %
Prated	34.00 kW	7.00 kW
SCOP	3.90	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.80 kW	5.90 kW
COP Tj = -7°C	2.67	2.00
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	18.10 kW	3.70 kW
COP Tj = +2°C	3.83	3.18
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	11.70 kW	2.50 kW

COP Tj = +7°C	4.95	4.52
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	14.20 kW	1.10 kW
COP Tj = 12°C	6.02	5.09
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	33.70 kW	5.90 kW
COP Tj = Tbiv	2.35	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.70 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.35	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	30 W	16 W
PTO	404 W	16 W
PSB	30 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	17826 kWh	4202 kWh

Model WSAN-YSI 22.2

Model name	WSAN-YSI 22.2
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	62.00 kW	9.40 kW
El input	15.90 kW	3.30 kW
COP	3.90	2.85

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	86 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	152 %	127 %
Prated	37.00 kW	9.00 kW
SCOP	3.87	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	32.30 kW	7.70 kW
COP Tj = -7°C	2.59	1.98
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	19.70 kW	4.90 kW
COP Tj = +2°C	3.76	3.02
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	12.70 kW	3.20 kW

COP Tj = +7°C	5.04	4.67
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	14.20 kW	1.40 kW
COP Tj = 12°C	6.02	6.16
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	32.30 kW	7.70 kW
COP Tj = Tbiv	2.59	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	35.40 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.28	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.90
WTOL	54 °C	49 °C
Poff	30 W	16 W
PTO	404 W	16 W
PSB	30 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	0.00 kW
Annual energy consumption Qhe	19512 kWh	5558 kWh

Model WiSAN-YSE1 EXC-SC 16.2

Model name	WiSAN-YSE1 EXC-SC 16.2
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	51.50 kW	46.50 kW
El input	11.30 kW	17.20 kW
COP	4.54	2.71

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
ηs	175 %	126 %
Prated	34.80 kW	33.20 kW
SCOP	4.46	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	30.79 kW	26.60 kW
COP Tj = -7°C	2.81	1.87
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	21.36 kW	18.78 kW
COP Tj = +2°C	4.52	3.26
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	25.20 kW	23.47 kW
COP Tj = +7°C	5.72	4.49
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	29.84 kW	28.35 kW
COP Tj = 12°C	7.63	6.23
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	30.79 kW	28.13 kW
COP Tj = Tbiv	2.81	2.00

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.65 kW	14.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	90 W	90 W
PTO	150 W	150 W
PSB	90 W	90 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	6.16 kW	19.24 kW
Annual energy consumption Qhe	16118 kWh	21227 kWh

Model WiSAN-YSE1 EXC-SC 18.2

Model name	WiSAN-YSE1 EXC-SC 18.2
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	55.50 kW	51.90 kW
El input	12.80 kW	19.40 kW
COP	4.33	2.68

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	175 %	125 %
Prated	38.60 kW	37.27 kW
SCOP	4.46	3.21
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	34.16 kW	30.48 kW
COP Tj = -7°C	2.79	1.87
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	22.74 kW	20.42 kW
COP Tj = +2°C	4.45	3.17
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	25.15 kW	23.63 kW
COP Tj = +7°C	5.75	4.53
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	29.80 kW	28.56 kW
COP Tj = 12°C	7.72	6.50
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	34.16 kW	31.53 kW
COP Tj = Tbiv	2.79	1.95

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.20 kW	15.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	1.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	90 W	90 W
PTO	150 W	150 W
PSB	90 W	90 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	5.40 kW	22.27 kW
Annual energy consumption Qhe	17891 kWh	24016 kWh

Model WiSAN-YSE1 EXC-SC 22.2

Model name	WiSAN-YSE1 EXC-SC 22.2
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	64.10 kW	56.70 kW
El input	15.50 kW	21.00 kW
COP	4.15	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	78 dB(A)	78 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	173 %	125 %
Prated	43.00 kW	40.32 kW
SCOP	4.41	3.19
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	38.01 kW	33.01 kW
COP Tj = -7°C	2.68	1.86
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	22.78 kW	21.39 kW
COP Tj = +2°C	4.44	3.12
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	25.19 kW	23.63 kW
COP Tj = +7°C	5.66	4.58
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	29.84 kW	28.56 kW
COP Tj = 12°C	7.60	6.63
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	38.01 kW	34.12 kW
COP Tj = Tbiv	2.68	1.93

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	35.92 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	90 W	90 W
PTO	150 W	150 W
PSB	90 W	90 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	7.04 kW	24.32 kW
Annual energy consumption Qhe	20144 kWh	26137 kWh

Model WiSAN-YSE1 EXC-EN 16.2

Model name	WiSAN-YSE1 EXC-EN 16.2
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	44.80 kW	37.00 kW
El input	9.92 kW	13.30 kW
COP	4.51	2.79

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
ηs	171 %	127 %
Prated	30.70 kW	28.10 kW
SCOP	4.34	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	27.14 kW	23.07 kW
COP Tj = -7°C	2.71	1.95
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	20.72 kW	18.78 kW
COP Tj = +2°C	4.42	3.26
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	24.84 kW	23.47 kW
COP Tj = +7°C	5.70	4.49
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	29.72 kW	28.35 kW
COP Tj = 12°C	7.42	6.23
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	27.14 kW	23.80 kW
COP Tj = Tbiv	2.71	2.04

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	23.79 kW	14.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	90 W	90 W
PTO	150 W	150 W
PSB	90 W	90 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	6.89 kW	14.13 kW
Annual energy consumption Qhe	14596 kWh	17941 kWh

Model WiSAN-YSE1 EXC-EN 18.2

Model name	WiSAN-YSE1 EXC-EN 18.2
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	48.70 kW	41.50 kW
El input	11.20 kW	15.30 kW
COP	4.35	2.72

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
ηs	170 %	127 %
Prated	35.40 kW	30.10 kW
SCOP	4.33	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	31.30 kW	24.97 kW
COP Tj = -7°C	2.74	1.94
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	21.20 kW	18.78 kW
COP Tj = +2°C	4.35	3.26
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	24.84 kW	23.47 kW
COP Tj = +7°C	5.63	4.49
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	29.72 kW	28.35 kW
COP Tj = 12°C	7.30	6.23
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	31.30 kW	25.50 kW
COP Tj = Tbiv	2.74	2.02

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.24 kW	14.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	90 W	90 W
PTO	150 W	150 W
PSB	90 W	90 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	7.14 kW	16.14 kW
Annual energy consumption Qhe	16879 kWh	19220 kWh

Model WiSAN-YSE1 EXC-EN 22.2

Model name	WiSAN-YSE1 EXC-EN 22.2
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	53.40 kW	45.90 kW
El input	12.30 kW	16.70 kW
COP	4.32	2.75

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
ηs	169 %	127 %
Prated	38.70 kW	34.90 kW
SCOP	4.30	3.25
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	34.22 kW	28.56 kW
COP Tj = -7°C	2.70	1.92
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	21.31 kW	18.78 kW
COP Tj = +2°C	4.31	3.26
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	24.93 kW	23.47 kW
COP Tj = +7°C	5.55	4.49
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	29.80 kW	28.35 kW
COP Tj = 12°C	7.20	6.23
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	34.22 kW	29.50 kW
COP Tj = Tbiv	2.70	2.00

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.59 kW	14.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	35 °C	55 °C
Poff	90 W	90 W
PTO	150 W	150 W
PSB	90 W	90 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	8.09 kW	20.86 kW
Annual energy consumption Qhe	18600 kWh	22215 kWh

Model WiSAN-YSE1 PRM-SC 16.2	
Model name	WiSAN-YSE1 PRM-SC 16.2
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	54.40 kW	
El input	12.70 kW	
COP	4.30	

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	166 %	
Prated	36.30 kW	
SCOP	4.22	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	32.11 kW	
COP Tj = -7°C	2.69	
Cdh Tj = -7 °C	0.950	
Pdh Tj = +2°C	20.72 kW	
COP Tj = +2°C	4.25	
Cdh Tj = +2 °C	0.950	
Pdh Tj = +7°C	24.84 kW	
COP Tj = +7°C	5.55	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	29.72 kW	
COP Tj = 12°C	7.27	
Cdh Tj = +12 °C	0.950	
Pdh Tj = Tbiv	32.11 kW	
COP Tj = Tbiv	2.69	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950
WTOL	35 °C
Poff	90 W
PTO	150 W
PSB	90 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	7.65 kW
Annual energy consumption Qhe	17769 kWh

Model WiSAN-YSE1 PRM-SC 18.2	
Model name	WiSAN-YSE1 PRM-SC 18.2
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	58.70 kW	
El input	14.40 kW	
COP	4.06	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	78 dB(A)	

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	166 %	
Prated	40.40 kW	
SCOP	4.19	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	35.74 kW	
COP Tj = -7°C	2.68	
Cdh Tj = -7 °C	0.950	
Pdh Tj = +2°C	22.06 kW	
COP Tj = +2°C	4.21	
Cdh Tj = +2 °C	0.950	
Pdh Tj = +7°C	24.90 kW	
COP Tj = +7°C	5.43	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	29.54 kW	
COP Tj = 12°C	7.04	
Cdh Tj = +12 °C	0.950	
Pdh Tj = Tbiv	35.74 kW	
COP Tj = Tbiv	2.68	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950
WTOL	35 °C
Poff	90 W
PTO	150 W
PSB	90 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	7.18 kW
Annual energy consumption Qhe	19931 kWh

Model WiSAN-YSE1 PRM-SC 22.2	
Model name	WiSAN-YSE1 PRM-SC 22.2
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	67.10 kW	
El input	16.90 kW	
COP	3.98	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	80 dB(A)	

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	164 %	
Prated	45.00 kW	
SCOP	3.19	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	39.83 kW	
COP Tj = -7°C	2.62	
Cdh Tj = -7 °C	0.950	
Pdh Tj = +2°C	23.48 kW	
COP Tj = +2°C	4.21	
Cdh Tj = +2 °C	0.950	
Pdh Tj = +7°C	24.94 kW	
COP Tj = +7°C	5.39	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	29.51 kW	
COP Tj = 12°C	6.94	
Cdh Tj = +12 °C	0.950	
Pdh Tj = Tbiv	39.83 kW	
COP Tj = Tbiv	2.62	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	35.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950
WTOL	35 °C
Poff	90 W
PTO	150 W
PSB	90 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	9.11 kW
Annual energy consumption Qhe	22286 kWh

Model WiSAN-YSE1 PRM-EN 16.2	
Model name	WiSAN-YSE1 PRM-EN 16.2
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	46.30 kW	
El input	10.50 kW	
COP	4.41	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	163 %	
Prated	34.10 kW	
SCOP	4.15	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	30.13 kW	
COP Tj = -7°C	2.77	
Cdh Tj = -7 °C	0.940	
Pdh Tj = +2°C	20.70 kW	
COP Tj = +2°C	4.25	
Cdh Tj = +2 °C	0.940	
Pdh Tj = +7°C	25.09 kW	
COP Tj = +7°C	5.44	
Cdh Tj = +7 °C	0.940	
Pdh Tj = 12°C	29.72 kW	
COP Tj = 12°C	6.66	
Cdh Tj = +12 °C	0.940	
Pdh Tj = Tbiv	30.13 kW	
COP Tj = Tbiv	2.77	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.24 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.940
WTOL	35 °C
Poff	90 W
PTO	150 W
PSB	90 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	5.82 kW
Annual energy consumption Qhe	16959 kWh

Model WiSAN-YSE1 PRM-EN 18.2	
Model name	WiSAN-YSE1 PRM-EN 18.2
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	51.20 kW	
El input	11.90 kW	
COP	4.31	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	161 %	
Prated	37.30 kW	
SCOP	4.11	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	32.96 kW	
COP Tj = -7°C	2.72	
Cdh Tj = -7 °C	0.940	
Pdh Tj = +2°C	22.00 kW	
COP Tj = +2°C	4.13	
Cdh Tj = +2 °C	0.940	
Pdh Tj = +7°C	25.20 kW	
COP Tj = +7°C	5.44	
Cdh Tj = +7 °C	0.940	
Pdh Tj = 12°C	29.84 kW	
COP Tj = 12°C	6.66	
Cdh Tj = +12 °C	0.940	
Pdh Tj = Tbiv	32.96 kW	
COP Tj = Tbiv	2.72	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.940
WTOL	35 °C
Poff	90 W
PTO	150 W
PSB	90 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	6.67 kW
Annual energy consumption Qhe	18726 kWh

Model WiSAN-YSE1 PRM-EN 22.2	
Model name	WiSAN-YSE1 PRM-EN 22.2
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	55.30 kW	
El input	13.00 kW	
COP	4.25	

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	161 %	
Prated	41.80 kW	
SCOP	4.10	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	37.00 kW	
COP Tj = -7°C	2.70	
Cdh Tj = -7 °C	0.940	
Pdh Tj = +2°C	23.50 kW	
COP Tj = +2°C	4.10	
Cdh Tj = +2 °C	0.940	
Pdh Tj = +7°C	25.19 kW	
COP Tj = +7°C	5.44	
Cdh Tj = +7 °C	0.940	
Pdh Tj = 12°C	29.81 kW	
COP Tj = 12°C	6.59	
Cdh Tj = +12 °C	0.940	
Pdh Tj = Tbiv	37.00 kW	
COP Tj = Tbiv	2.70	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.940
WTOL	35 °C
Poff	90 W
PTO	150 W
PSB	90 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	7.92 kW
Annual energy consumption Qhe	21051 kWh