

Subtype Sheen EVO/EVO 2.0 - 30.2, 35.2, 40.2

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 - 30.2, 35.2, 40.2
Registration number	ICIM-PDC-000132
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	17.5 kg
Certification Date	21.02.2022
Testing basis	HP KEYMARK certification scheme rules rev. no. 9

Model WSAN-YSi 30.2

Model name	WSAN-YSi 30.2
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	82 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	160 %	
Prated	51.00 kW	
SCOP	4.06	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	45.02 kW	
COP Tj = -7°C	2.75	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	28.17 kW	
COP Tj = +2°C	4.18	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	26.16 kW	
COP Tj = +7°C	5.00	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	31.74 kW	
COP Tj = 12°C	6.88	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	45.02 kW	
COP Tj = Tbiv	2.75	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	42.80 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	

WTOL	54 °C
Poff	104 W
PTO	508 W
PSB	104 W
PCK	0 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	8.20 kW
Annual energy consumption Qhe	25834 kWh

Model WSAN-YSi 35.2

Model name	WSAN-YSi 35.2
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	159 %	
Prated	55.00 kW	
SCOP	4.06	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	48.43 kW	
COP Tj = -7°C	2.68	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	29.76 kW	
COP Tj = +2°C	4.16	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	26.16 kW	
COP Tj = +7°C	5.00	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	31.82 kW	
COP Tj = 12°C	6.84	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	48.30 kW	
COP Tj = Tbiv	2.68	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.20 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	

WTOL	54 °C
Poff	104 W
PTO	540 W
PSB	104 W
PCK	0 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	7.80 kW
Annual energy consumption Qhe	27859 kWh

Model WSAN-YSi 40.2

Model name	WSAN-YSi 40.2
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	159 %	
Prated	56.00 kW	
SCOP	4.04	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	49.34 kW	
COP Tj = -7°C	2.67	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	31.85 kW	
COP Tj = +2°C	4.24	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	26.15 kW	
COP Tj = +7°C	4.73	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	32.51 kW	
COP Tj = 12°C	6.78	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	49.34 kW	
COP Tj = Tbiv	2.67	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	53.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	

WTOL	54 °C
Poff	104 W
PTO	690 W
PSB	104 W
PCK	0 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	3.00 kW
Annual energy consumption Qhe	28523 kWh

Model WiSAN-YSE1 EXC-SC 30.2

Model name	WiSAN-YSE1 EXC-SC 30.2
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 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
η_s	170 %	125 %
Prated	53.40 kW	58.02 kW
SCOP	4.33	3.20
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	47.21 kW	47.66 kW
COP Tj = -7°C	2.73	1.96
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	30.76 kW	29.59 kW
COP Tj = +2°C	4.34	3.12
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	35.04 kW	39.10 kW
COP Tj = +7°C	5.60	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	40.87 kW	33.21 kW
COP Tj = 12°C	7.28	6.07
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	47.21 kW	49.09 kW
COP Tj = Tbiv	2.73	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	44.78 kW	45.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970

WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	8.59 kW	12.98 kW
Annual energy consumption Qhe	25443 kWh	37519 kWh

Model WiSAN-YSE1 EXC-SC 35.2

Model name	WiSAN-YSE1 EXC-SC 35.2
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	81 dB(A)	81 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	169 %	125 %
Prated	58.90 kW	62.63 kW
SCOP	4.29	3.19
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	52.10 kW	51.45 kW
COP Tj = -7°C	2.67	1.94
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	30.80 kW	31.11 kW
COP Tj = +2°C	4.30	3.09
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	35.10 kW	40.31 kW
COP Tj = +7°C	5.53	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	40.91 kW	34.24 kW
COP Tj = 12°C	7.19	6.43
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	52.10 kW	53.00 kW
COP Tj = Tbiv	2.67	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	50.10 kW	48.62 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970

WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	8.80 kW	14.01 kW
Annual energy consumption Qhe	28335 kWh	40595 kWh

Model WiSAN-YSE1 PRM-SC 30.2

Model name	WiSAN-YSE1 PRM-SC 30.2
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	80 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	162 %	
Prated	55.80 kW	
SCOP	4.12	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	49.33 kW	
COP Tj = -7°C	2.70	
Cdh Tj = -7 °C	0.950	
Pdh Tj = +2°C	31.45 kW	
COP Tj = +2°C	4.15	
Cdh Tj = +2 °C	0.950	
Pdh Tj = +7°C	35.74 kW	
COP Tj = +7°C	5.34	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	41.42 kW	
COP Tj = 12°C	6.68	
Cdh Tj = +12 °C	0.950	
Pdh Tj = Tbiv	49.33 kW	
COP Tj = Tbiv	2.70	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	46.28 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.39	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950	

WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	9.48 kW
Annual energy consumption Qhe	27961 kWh

Model WiSAN-YSE1 PRM-SC 35.2

Model name	WiSAN-YSE1 PRM-SC 35.2
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	160 %	
Prated	62.80 kW	
SCOP	4.08	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	55.56 kW	
COP Tj = -7°C	2.62	
Cdh Tj = -7 °C	0.950	
Pdh Tj = +2°C	33.51 kW	
COP Tj = +2°C	4.10	
Cdh Tj = +2 °C	0.950	
Pdh Tj = +7°C	35.91 kW	
COP Tj = +7°C	5.30	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	42.87 kW	
COP Tj = 12°C	6.60	
Cdh Tj = +12 °C	0.950	
Pdh Tj = Tbiv	55.56 kW	
COP Tj = Tbiv	2.62	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	50.14 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950	

WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	12.67 kW
Annual energy consumption Qhe	31806 kWh

Model WiSAN-YSE1 PRM-SC 40.2

Model name	WiSAN-YSE1 PRM-SC 40.2
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	162 %	
Prated	67.00 kW	
SCOP	4.13	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	59.24 kW	
COP Tj = -7°C	2.60	
Cdh Tj = -7 °C	0.970	
Pdh Tj = +2°C	36.53 kW	
COP Tj = +2°C	4.08	
Cdh Tj = +2 °C	0.970	
Pdh Tj = +7°C	36.00 kW	
COP Tj = +7°C	5.40	
Cdh Tj = +7 °C	0.970	
Pdh Tj = 12°C	42.95 kW	
COP Tj = 12°C	6.76	
Cdh Tj = +12 °C	0.970	
Pdh Tj = Tbiv	59.24 kW	
COP Tj = Tbiv	2.60	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.44 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	

WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	11.53 kW
Annual energy consumption Qhe	33528 kWh

Model WiSAN-YSE1 PRM-EN 30.2

Model name	WiSAN-YSE1 PRM-EN 30.2
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 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	161 %	
Prated	51.20 kW	
SCOP	4.10	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	45.26 kW	
COP Tj = -7°C	2.73	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	27.20 kW	
COP Tj = +2°C	4.23	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	27.29 kW	
COP Tj = +7°C	5.40	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	40.91 kW	
COP Tj = 12°C	6.70	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	45.26 kW	
COP Tj = Tbiv	2.73	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	39.29 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	

WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	11.87 kW
Annual energy consumption Qhe	25750 kWh

Model WiSAN-YSE1 PRM-EN 35.2

Model name	WiSAN-YSE1 PRM-EN 35.2
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 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	159 %	
Prated	56.70 kW	
SCOP	4.06	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	50.14 kW	
COP Tj = -7°C	2.70	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	30.53 kW	
COP Tj = +2°C	4.11	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	27.29 kW	
COP Tj = +7°C	5.40	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	40.91 kW	
COP Tj = 12°C	6.70	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	50.14 kW	
COP Tj = Tbiv	2.70	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	41.71 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.15	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	

WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	14.97 kW
Annual energy consumption Qhe	28860 kWh

Model WiSAN-YSE1 PRM-EN 40.2

Model name	WiSAN-YSE1 PRM-EN 40.2
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 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	159 %	
Prated	64.10 kW	
SCOP	4.05	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	56.67 kW	
COP Tj = -7°C	2.65	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	33.07 kW	
COP Tj = +2°C	4.08	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	27.29 kW	
COP Tj = +7°C	5.40	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	40.91 kW	
COP Tj = 12°C	6.70	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	56.67 kW	
COP Tj = Tbiv	2.65	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.04 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	

WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	17.02 kW
Annual energy consumption Qhe	32639 kWh

Model WiSAN-YSE1 EXC-EN 30.2

Model name	WiSAN-YSE1 EXC-EN 30.2
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 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	167 %	126 %
Prated	48.80 kW	47.71 kW
SCOP	4.24	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	43.21 kW	39.44 kW
COP Tj = -7°C	2.67	2.00
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	27.14 kW	29.50 kW
COP Tj = +2°C	4.32	3.15
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	27.23 kW	39.10 kW
COP Tj = +7°C	5.40	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	40.82 kW	33.11 kW
COP Tj = 12°C	6.70	6.15
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	43.21 kW	40.37 kW
COP Tj = Tbiv	2.67	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	38.45 kW	37.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.33	1.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970

WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	10.40 kW	10.15 kW
Annual energy consumption Qhe	23799 kWh	30651 kWh

Model WiSAN-YSE1 EXC-EN 35.2

Model name	WiSAN-YSE1 EXC-EN 35.2
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 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	165 %	125 %
Prated	52.60 kW	55.24 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	46.55 kW	45.64 kW
COP Tj = -7°C	2.64	1.94
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	28.48 kW	29.59 kW
COP Tj = +2°C	4.27	3.12
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	27.37 kW	39.10 kW
COP Tj = +7°C	5.35	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	41.05 kW	33.21 kW
COP Tj = 12°C	6.66	6.15
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	46.55 kW	46.74 kW
COP Tj = Tbiv	2.64	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	40.23 kW	41.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970

WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	12.39 kW	13.76 kW
Annual energy consumption Qhe	25887 kWh	35690 kWh