Subtype AEROTOP EVO LN / AEROTOP EVO PLUS LN

Certificate Holder	ELCO GmbH
Address	Hohenzollernstrasse 31
ZIP	72379
City	Hechingen
Country	DE
Certification Body	ICIM S.p.A.
Subtype title	AEROTOP EVO LN / AEROTOP EVO PLUS LN
Registration number	ICIM-PDC-000246
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	14 kg
Certification Date	21.03.2024
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model AEROTOP EVO PLUS LN 48

Model name	AEROTOP EVO PLUS LN 48
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 AEROTOP EVO PLUS LN 54	
Model name	AEROTOP EVO PLUS LN 54
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 AEROTOP EVO PLUS LN 65	
Model name	AEROTOP EVO PLUS LN 65
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 AEROTOP EVO LN 48		
Model name	AEROTOP EVO LN 48	
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 AEROTOP EVO LN 54		
Model name	AEROTOP EVO LN 54	
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 AEROTOP EVO LN 65		
Model name	AEROTOP EVO LN 65	
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