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-000245
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	7.9 kg
Certification Date	21.03.2024
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model AEROTOP EVO PLUS LN 24	
Model name	AEROTOP EVO PLUS LN 24
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
ηs	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 AEROTOP EVO PLUS LN 27	
Model name	AEROTOP EVO PLUS LN 27
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
ηs	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 AEROTOP EVO PLUS LN 32

Model name	AEROTOP EVO PLUS LN 32
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
ηs	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 AEROTOP EVO LN 24		
Model name	AEROTOP EVO LN 24	
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
ηs	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 Tj = Tbiv	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50
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	2.88 kW
Annual energy consumption Qhe	7886 kWh

Model AEROTOP EVO LN 27		
Model name	AEROTOP EVO LN 27	
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
ηs	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 AEROTOP EVO LN 32		
Model name	AEROTOP EVO LN 32	
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
ηs	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