

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-000247
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	17.5 kg
Certification Date	21.03.2024
Testing basis	HP KEYMARK certification scheme rules rev. no. 9

Model AEROTOP EVO LN 79

Model name	AEROTOP EVO LN 79
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	68.60 kW	
El input	16.50 kW	
COP	4.16	

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 AEROTOP EVO LN 88

Model name	AEROTOP EVO LN 88
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	76.10 kW	
El input	19.00 kW	
COP	4.01	

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 AEROTOP EVO LN 105

Model name	AEROTOP EVO LN 105
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	81.90 kW	
El input	20.30 kW	
COP	4.04	

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 AEROTOP EVO PLUS LN 79

Model name	AEROTOP EVO PLUS LN 79
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	65.40 kW	60.00 kW
El input	15.50 kW	22.10 kW
COP	4.22	2.71

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 AEROTOP EVO PLUS LN 88

Model name	AEROTOP EVO PLUS LN 88
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	72.70 kW	68.70 kW
El input	17.90 kW	25.90 kW
COP	4.07	2.65

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