

Subtype AEROTOP EVO / AEROTOP EVO PLUS

Certificate Holder	ELCO GmbH
Address	Hohenzollernstrasse 31
ZIP	72379
City	Hechingen
Country	DE
Certification Body	ICIM S.p.A.
Subtype title	AEROTOP EVO / AEROTOP EVO PLUS
Registration number	ICIM-PDC-000227
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	7.9 kg
Certification Date	22.11.2023
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model AEROTOP EVO PLUS 24

Model name	AEROTOP EVO PLUS 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 14511-4 | 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	26.10 kW	23.00 kW
El input	5.82 kW	9.06 kW
COP	4.48	2.54

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	179 %	127 %
Prated	19.24 kW	16.78 kW
SCOP	4.54	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.18 kW	13.04 kW
COP Tj = -7°C	2.65	1.93
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	11.38 kW	9.50 kW
COP Tj = +2°C	4.72	3.25
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.42 kW	11.10 kW
COP Tj = +7°C	5.65	4.40

Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.75 kW	13.45 kW
COP Tj = 12°C	7.42	6.15
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	17.18 kW	14.20 kW
COP Tj = Tbiv	2.65	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.67 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	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	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	7.63 kW
Annual energy consumption Qhe	8838 kWh	10709 kWh

Model AEROTOP EVO PLUS 27

Model name	AEROTOP EVO PLUS 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	30.50 kW	27.70 kW
El input	7.04 kW	11.50 kW
COP	4.33	2.40

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	126 %
Prated	22.50 kW	19.53 kW
SCOP	4.49	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.90 kW	15.95 kW
COP Tj = -7°C	2.63	1.94
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	12.43 kW	10.80 kW
COP Tj = +2°C	4.61	3.20
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	12.42 kW	11.47 kW
COP Tj = +7°C	5.68	4.41
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	14.76 kW	13.80 kW
COP Tj = 12°C	7.54	6.14
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	19.90 kW	16.52 kW
COP Tj = Tbiv	2.63	2.02

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.28 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	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	5.21 kW	9.53 kW
Annual energy consumption Qhe	10358 kWh	12516 kWh

Model AEROTOP EVO PLUS 32

Model name	AEROTOP EVO PLUS 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	37.00 kW	32.60 kW
El input	8.86 kW	14.00 kW
COP	4.22	2.33

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	175 %	124 %
Prated	25.50 kW	22.97 kW
SCOP	4.44	3.19
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	22.60 kW	18.82 kW
COP Tj = -7°C	2.63	1.89
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	13.25 kW	12.44 kW
COP Tj = +2°C	4.50	3.15
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	12.44 kW	11.48 kW
COP Tj = +7°C	5.71	4.40
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	14.77 kW	13.82 kW
COP Tj = 12°C	7.51	6.36
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	22.60 kW	19.44 kW
COP Tj = Tbiv	2.63	1.96

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.38 kW	11.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	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	7.17 kW	11.97 kW
Annual energy consumption Qhe	11895 kWh	14903 kWh

Model AEROTOP EVO 24

Model name	AEROTOP EVO 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	27.90 kW	kW
El input	6.39 kW	kW
COP	4.36	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	169 %	
Prated	20.48 kW	
SCOP	4.29	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	18.12 kW	
COP Tj = -7°C	2.40	
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	11.61 kW	
COP Tj = +2°C	4.48	
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.42 kW	
COP Tj = +7°C	5.37	
Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.75 kW	
COP Tj = 12°C	7.12	
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	18.12 kW	
COP Tj = Tbiv	2.40	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47
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	2.90 kW
Annual energy consumption Qhe	9865 kWh

Model AEROTOP EVO 27

Model name	AEROTOP EVO 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	32.20 kW	
El input	8.05 kW	
COP	4.01	

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	166 %	
Prated	23.40 kW	
SCOP	4.23	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	20.70 kW	
COP Tj = -7°C	2.50	
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	12.11 kW	
COP Tj = +2°C	4.34	
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.34 kW	
COP Tj = +7°C	5.39	
Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.65 kW	
COP Tj = 12°C	6.73	
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	20.70 kW	
COP Tj = Tbiv	2.50	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62
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	6.06 kW
Annual energy consumption Qhe	11432 kWh

Model AEROTOP EVO 32

Model name	AEROTOP EVO 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	38.00 kW	
El input	10.30 kW	
COP	3.70	

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	162 %	
Prated	25.90 kW	
SCOP	4.11	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	22.95 kW	
COP Tj = -7°C	2.59	
Cdh Tj = -7 °C	0.980	
Pdh Tj = +2°C	13.09 kW	
COP Tj = +2°C	4.16	
Cdh Tj = +2 °C	0.980	
Pdh Tj = +7°C	12.39 kW	
COP Tj = +7°C	5.17	
Cdh Tj = +7 °C	0.980	
Pdh Tj = 12°C	14.70 kW	
COP Tj = 12°C	6.44	
Cdh Tj = +12 °C	0.980	
Pdh Tj = Tbiv	22.95 kW	
COP Tj = Tbiv	2.59	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60
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	7.45 kW
Annual energy consumption Qhe	13028 kWh