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#### This information was generated by the HP KEYMARK database on 13 Apr 2022

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Summary of	AEROTOP SG12 INOX / INOX OPTIC	Reg. No.	011-1W0475
Certificate Holder			
Name	ELCO GmbH		
Address	Hohenzollernstrasse 31	Zip	72379
City	Hechingen	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	AEROTOP SG12 INOX / INOX OPTIC		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	4.27 kg		
Certification Date	05.07.2021		
Testing basis	HP KEYMARK certification scheme rules rev. 8		



# **Model: AEROTOP SG12 INOX / INOX OPTIC**

Configure model			
Model name	AEROTOP SG12 INOX / INOX OPTIC		
Application	Heating (medium temp)		
Units	Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	No		
Cooling mode application (optional)	n/a		

	General Data	
Power supply	3x400V 50Hz	

## Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2				
Low temperature Medium temperature				
Heat output	7.15 kW	6.70 kW		
El input	1.32 kW	2.12 kW		
СОР	5.40	3.16		

# Average Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	54 dB(A)	54 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	206 %	150 %
Prated	12.63 kW	12.58 kW
SCOP	5.23	3.83
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.17 kW	11.15 kW
$COPTj = -7^{\circ}C$	3.87	2.64
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.85 kW	6.76 kW
COP Tj = +2°C	5.27	3.95
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.37 kW	4.36 kW
$COP Tj = +7^{\circ}C$	6.75	4.62
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	4.34 kW	4.20 kW

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6793 kWh



This information was generated by the HP KEYMARK database on 13 Apr 2022 COP Tj = 12°C8.26 6.35 Cdh Tj = +12 °C 0.960 0.960 Pdh Tj = Tbiv11.17 kW 11.15 kW COP Tj = Tbiv3.87 2.64 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 11.00 kW 10.80 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.99 2.27 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.960 0.960 WTOL 60 °C 60 °C Poff 24 W 24 W PTO 24 W 24 W **PSB** 24 W 24 W **PCK** 24 W 24 W Supplementary Heater: Type of energy input Electricity Electricity 1.63 kW 1.78 kW Supplementary Heater: PSUP

### Warmer Climate

Annual energy consumption Qhe

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	54 dB(A)	54 dB(A)	

4984 kWh

#### EN 14825





	Low temperature	Medium temperature
$\eta_{s}$	220 %	154 %
Prated	8.24 kW	7.70 kW
SCOP	5.57	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.24 kW	7.70 kW
$COP Tj = +2^{\circ}C$	4.56	2.95
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.30 kW	5.18 kW
$COP Tj = +7^{\circ}C$	5.70	3.58
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	4.48 kW	4.30 kW
COP Tj = 12°C	7.47	5.54
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	8.24 kW	7.70 kW
COP Tj = Tbiv	4.56	2.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.24 kW	7.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990

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WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	24 W	24 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1977 kWh	2616 kWh

### Colder Climate

EN 12102-1				
Low temperature Medium temperature				
Sound power level outdoor	54 dB(A)	54 dB(A)		

Low temperature	Medium temperature
152 %	128 %
17.66 kW	17.47 kW
3.86	3.26
-7 °C	-7 °C
-20 °C	-20 °C
_	3.86 -7 °C





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Pdh Tj = -7°C	11.28 kW	11.16 kW
$COP Tj = -7^{\circ}C$	3.63	3.04
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	6.82 kW	6.86 kW
COP Tj = +2°C	5.68	4.40
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = $+7^{\circ}$ C	4.38 kW	4.38 kW
$COP Tj = +7^{\circ}C$	6.35	5.54
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	4.37 kW	4.47 kW
COP Tj = 12°C	8.25	7.10
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	11.28 kW	11.16 kW
COP Tj = Tbiv	3.63	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.93 kW	6.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.47
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.960	0.960
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	24 W	24 W
PSB	24 W	24 W
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PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.73 kW	11.39 kW
Annual energy consumption Qhe	11889 kWh	13937 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		