

Testing basis

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<u>Login</u>				
Summary of	AEROTOP SG14 INOX / INOX OPTIC	Reg. No.	011-1W0476	
Certificate Holder		<u> </u>		
Name	ELCO GmbH			
Address	Hohenzollernstrasse 31	Zip	72379	
City	Hechingen	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für Konformität	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	AEROTOP SG14 INOX / INOX OPTIC	AEROTOP SG14 INOX / INOX OPTIC		
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4.27 kg			
Certification Date	05.07.2021			

HP KEYMARK certification scheme rules rev. 8



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Model: AEROTOP SG14 INOX / INOX OPTIC

Configure model		
Model name	AEROTOP SG14 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	9.15 kW	13.30 kW	
El input	1.78 kW	6.43 kW	
СОР	5.13	2.07	

Average Climate



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	183 %	151 %
Prated	15.70 kW	15.15 kW
SCOP	4.64	3.85
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	13.89 kW	13.40 kW
COP Tj = -7°C	2.93	2.38
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.84 kW	8.51 kW
COP Tj = +2°C	4.69	3.80
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	5.58 kW	5.53 kW
COP Tj = +7°C	6.27	5.42
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	4.43 kW	4.40 kW

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COP Tj = 12°C	7.70	6.57
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	13.89 kW	13.40 kW
COP Tj = Tbiv	2.93	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.79 kW	12.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.08
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
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.91 kW	2.64 kW
Annual energy consumption Qhe	6993 kWh	8129 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

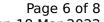




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	Low temperature	Medium temperature
η_{s}	224 %	165 %
Prated	10.10 kW	9.75 kW
SCOP	5.68	4.19
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.10 kW	9.75 kW
COP Tj = +2°C	4.19	2.88
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.60 kW	6.35 kW
$COP Tj = +7^{\circ}C$	5.69	3.87
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	4.48 kW	4.30 kW
COP Tj = 12°C	7.47	5.66
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	10.10 kW	9.75 kW
COP Tj = Tbiv	4.19	2.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10.10 kW	9.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990

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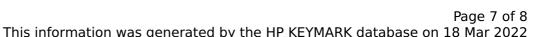


This information was generated by the HP KEYMARK database on 18 Mar 2022 WTOL 60 °C 60 °C Poff 24 W 24 W PTO 24 W 24 W **PSB** 24 W 24 W **PCK** 24 W 24 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW Annual energy consumption Qhe 2375 kWh 3109 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	150 %	127 %
Prated	21.91 kW	21.44 kW
SCOP	3.83	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C





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Pdh Tj = -7°C	14.00 kW	13.70 kW
COP Tj = -7°C	3.21	2.74
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.52 kW	8.37 kW
COP Tj = +2°C	5.67	4.45
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = $+7^{\circ}$ C	5.50 kW	5.40 kW
$COPTj = +7^{\circ}C$	6.59	5.57
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	4.37 kW	4.47 kW
COP Tj = 12°C	8.50	7.10
Cdh Tj = +12 °C	0.960	0.980
Pdh Tj = Tbiv	14.00 kW	13.70 kW
COP Tj = Tbiv	3.21	2.74
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.52 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.90
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	12.39 kW	12.04 kW
Annual energy consumption Qhe	14890 kWh	17120 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		