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Summary of	AEROTOP SG10 INOX / INOX OPTIC	Reg. No.	011-1W0472	
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 SG10 INOX / INOX OPTIC			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4.27 kg			
Certification Date	05.07.2021	05.07.2021		
Testing basis	HP KEYMARK certification scheme rules rev. 8			



Model: AEROTOP SG10 INOX / INOX OPTIC

Configure model			
Model name AEROTOP SG10 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 14511-2				
Low temperature Medium temperature				
Heat output	5.10 kW	4.85 kW		
El input	0.95 kW	1.50 kW		
СОР	5.35	3.24		

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

Warmer Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	201 %	159 %	
Prated	5.35 kW	4.98 kW	
SCOP	5.11	4.03	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	5.35 kW	4.98 kW	
COP Tj = +2°C	4.29	2.60	
Cdh Tj = +2 °C	0.990	0.990	
Pdh Tj = +7°C	3.81 kW	3.77 kW	
COP Tj = +7°C	5.65	4.52	
Cdh Tj = +7 °C	0.980	0.980	
Pdh Tj = 12°C	4.45 kW	4.25 kW	
COP Tj = 12°C	7.47	5.65	
Cdh Tj = +12 °C	0.960	0.960	
Pdh Tj = Tbiv	5.35 kW	4.98 kW	

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COP Tj = Tbiv	4.29	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.35 kW	4.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	24 W	25 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	1400 kWh	1649 kWh

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level outdoor	53 dB(A)	53 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	154 %	125 %	





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Prated	12.71 kW	12.83 kW
SCOP	3.92	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	8.12 kW	8.20 kW
COP Tj = -7° C	3.63	2.91
Cdh Tj = -7 °C	0.990	0.990
Pdh $Tj = +2$ °C	4.85 kW	4.93 kW
$COP Tj = +2^{\circ}C$	5.67	4.30
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = $+7^{\circ}$ C	3.95 kW	3.80 kW
$COP Tj = +7^{\circ}C$	7.10	5.47
Cdh Tj = $+7$ °C	0.960	0.960
Pdh Tj = 12°C	4.47 kW	4.25 kW
COP Tj = 12°C	8.25	7.10
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	8.12 kW	8.20 kW
COP Tj = Tbiv	3.63	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.41 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.960	0.960
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WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	24 W	25 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.30 kW	6.83 kW
Annual energy consumption Qhe	8434 kWh	10423 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level outdoor	53 dB(A)	53 dB(A)		

EN 14825			
Low temperature	Medium temperature		
193 %	141 %		
9.21 kW	9.20 kW		
	Low temperature		





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SCOP	4.91	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.15 kW	8.03 kW
COP Tj = -7°C	3.46	2.39
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.08 kW	4.95 kW
COP Tj = +2°C	5.12	3.60
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	3.72 kW	3.65 kW
$COP Tj = +7^{\circ}C$	6.21	4.82
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	4.34 kW	4.28 kW
COP Tj = 12°C	8.25	6.64
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	8.15 kW	8.03 kW
COP Tj = Tbiv	3.46	2.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.960	0.960
WTOL	60 °C	60 °C



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Poff	24 W	24 W
РТО	24 W	25 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.11 kW	0.20 kW
Annual energy consumption Qhe	3879 kWh	5299 kWh