This information was generated by the HP KEYMARK database on 18 Mar 2022

Login

Summary of	AEROTOP SG14 INOX / INOX OPTIC	Reg. No.	011-1W0476
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 SG14 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 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
COP	5.13	2.07

Average 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	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

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
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	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

	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°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

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

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°C	5.50 kW	5.40 kW
COP Tj = +7°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
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	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		