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Summary of	AEROTOP G14.2 INOX / INOX OPTIC	Reg. No.	011-1W0316
Certificate Holder			
Name	ELCO GmbH		
Address	Hohenzollernstrasse 31	Zip	72379
City	Hechingen	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Heat Pump Test Center WPZ		
Subtype title	AEROTOP G14.2 INOX / INOX OPTIC		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4.27 kg		
Certification Date	26.06.2019		

Model: AEROTOP G14.2 INOX / INOX OPTIC

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	11.00 kW	5.87 kW
El input	2.17 kW	1.81 kW
COP	5.08	3.24
Indoor water flow rate	1.89 m³/h	1.01 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	151 %
Prated	12.50 kW	12.43 kW
SCOP	5.01	3.83
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.06 kW	11.00 kW
COP Tj = -7°C	3.32	2.61
Cdh	0.99	0.99
Pdh Tj = +2°C	6.73 kW	6.90 kW
COP Tj = +2°C	5.08	3.87
Cdh	0.99	0.99
Pdh Tj = +7°C	4.33 kW	4.41 kW
COP Tj = +7°C	6.42	4.74
Cdh	0.99	0.99
Pdh Tj = 12°C	4.53 kW	4.45 kW
COP Tj = 12°C	7.65	6.35
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.06 kW	11.00 kW
COP Tj = Tbiv	3.32	2.61

Pdh Tj = TOL	11.66 kW	11.73 kW
COP Tj = TOL	2.96	2.37
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	0.84 kW	0.70 kW
Annual energy consumption Qhe	5160 kWh	6699 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	220 %	160 %
Prated	8.25 kW	8.16 kW
SCOP	5.58	4.06
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.25 kW	8.15 kW
COP Tj = +2°C	4.51	2.87

Cdh	0.99	0.99
Pdh Tj = +7°C	5.30 kW	5.25 kW
COP Tj = +7°C	3.70	3.70
Cdh	0.99	0.99
Pdh Tj = 12°C	4.48 kW	4.34 kW
COP Tj = 12°C	7.22	5.57
Cdh	0.99	0.99
Pdh Tj = Tbiv	8.25 kW	8.16 kW
COP Tj = Tbiv	4.51	2.87
Pdh Tj = TOL	8.25 kW	8.15 kW
COP Tj = TOL	4.51	2.87
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	1970 kWh	2683 kWh

Colder Climate

EN 14825

	Low temperature	Medium temperature
η_s	153 %	128 %
Prated	18.50 kW	18.32 kW
SCOP	3.91	3.28
Tbiv	-22 °C	-22 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.20 kW	11.09 kW
COP Tj = -7°C	3.59	3.06
Cdh	0.99	0.99
Pdh Tj = +2°C	6.82 kW	6.86 kW
COP Tj = +2°C	5.68	4.40
Cdh	0.99	0.99
Pdh Tj = +7°C	4.38 kW	4.38 kW
COP Tj = +7°C	6.35	5.54
Cdh	0.99	0.99
Pdh Tj = 12°C	4.37 kW	4.47 kW
COP Tj = 12°C	7.83	6.77
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.20 kW	11.09 kW
COP Tj = Tbiv	3.59	3.06

Pdh Tj = TOL	7.33 kW	6.44 kW
COP Tj = TOL	2.03	1.52
WTOL	45 °C	45 °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	10.33 kW	10.92 kW
Annual energy consumption Qhe	11670 kWh	13758 kWh
Pdh Tj = -15°C (if TOL<-20°C)	0.01	0.01
COP Tj = -15°C (if TOL<-20°C)	0.01	0.01
Cdh	0.99	0.99