

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	AEROTOP G08.2	Reg. No.	011-1W0388
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 G08.2		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4.27 kg		
Certification Date	27.07.2020		

Model: AEROTOP G08.2 INOX

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.05 kW	5.33 kW
El input	1.54 kW	1.77 kW
COP	5.23	3.00
Indoor water flow rate	1.40 m ³ /h	0.58 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	193 %	143 %
Prated	9.19 kW	9.20 kW
SCOP	4.90	3.67
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.13 kW	8.14 kW
COP Tj = -7°C	3.47	2.47
Cdh	0.99	0.99
Pdh Tj = +2°C	5.08 kW	4.98 kW
COP Tj = +2°C	5.12	3.66
Cdh	0.99	0.99
Pdh Tj = +7°C	3.72 kW	3.75 kW
COP Tj = +7°C	6.21	4.87
Cdh	0.97	0.97
Pdh Tj = 12°C	4.30 kW	4.28 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.95	6.64
Cdh	0.96	0.96
Pdh Tj = Tbiv	8.13 kW	8.14 kW
COP Tj = Tbiv	3.47	2.47
Pdh Tj = TOL	9.10 kW	9.05 kW
COP Tj = TOL	2.98	2.24
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	25 W	25 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.09 kW	0.15 kW
Annual energy consumption Qhe	3877 kWh	5179 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

η_s	200 %	160 %
Prated	5.12 kW	4.98 kW
SCOP	5.06	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.98 kW
COP Tj = +2°C	4.41	2.65
Cdh	0.98	0.98
Pdh Tj = +7°C	3.81 kW	3.77 kW
COP Tj = +7°C	5.65	4.60
Cdh	0.96	0.96
Pdh Tj = 12°C	4.45 kW	4.25 kW
COP Tj = 12°C	7.47	5.71
Cdh	0.96	0.96
Pdh Tj = Tbiv	5.12 kW	4.98 kW
COP Tj = Tbiv	4.41	2.65
Pdh Tj = TOL	5.12 kW	4.98 kW
COP Tj = TOL	4.41	2.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	25 W	25 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1351 kWh	1630 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	159 %	126 %
Prated	13.35 kW	13.51 kW
SCOP	4.06	3.22
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	8.08 kW	8.18 kW
COP T _j = -7°C	3.77	2.94
C _{dh}	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +2°C	4.92 kW	4.93 kW
COP Tj = +2°C	5.72	4.30
Cdh	0.98	0.98
Pdh Tj = +7°C	3.95 kW	3.80 kW
COP Tj = +7°C	7.10	5.47
Cdh	0.96	0.96
Pdh Tj = 12°C	4.47 kW	4.25 kW
COP Tj = 12°C	8.25	7.10
Cdh	0.96	0.96
Pdh Tj = Tbiv	8.08 kW	8.18 kW
COP Tj = Tbiv	3.77	2.94
Pdh Tj = TOL	6.47 kW	6.00 kW
COP Tj = TOL	2.03	1.58
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	25 W	25 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.18 kW	6.80 kW
Annual energy consumption Qhe	8105 kWh	10335 kWh

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL<-20°C)		
Cdh		

Model: AEROTOP G08.2 INOX OPTIC

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.05 kW	5.33 kW
El input	1.54 kW	1.77 kW
COP	5.23	3.00
Indoor water flow rate	1.40 m ³ /h	0.58 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	193 %	143 %
Prated	9.19 kW	9.20 kW
SCOP	4.90	3.67
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.13 kW	8.14 kW
COP Tj = -7°C	3.47	2.47
Cdh	0.99	0.99
Pdh Tj = +2°C	5.08 kW	4.98 kW
COP Tj = +2°C	5.12	3.66
Cdh	0.99	0.99
Pdh Tj = +7°C	3.72 kW	3.75 kW
COP Tj = +7°C	6.21	4.87
Cdh	0.97	0.97
Pdh Tj = 12°C	4.30 kW	4.28 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.95	6.64
Cdh	0.96	0.96
Pdh Tj = Tbiv	8.13 kW	8.14 kW
COP Tj = Tbiv	3.47	2.47
Pdh Tj = TOL	9.10 kW	9.05 kW
COP Tj = TOL	2.98	2.24
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	25 W	25 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.09 kW	0.15 kW
Annual energy consumption Qhe	3877 kWh	5179 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

η_s	200 %	160 %
Prated	5.12 kW	4.98 kW
SCOP	5.06	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.98 kW
COP Tj = +2°C	4.41	2.65
Cdh	0.98	0.98
Pdh Tj = +7°C	3.81 kW	3.77 kW
COP Tj = +7°C	5.65	4.60
Cdh	0.96	0.96
Pdh Tj = 12°C	4.45 kW	4.25 kW
COP Tj = 12°C	7.47	5.71
Cdh	0.96	0.96
Pdh Tj = Tbiv	5.12 kW	4.98 kW
COP Tj = Tbiv	4.41	2.65
Pdh Tj = TOL	5.12 kW	4.98 kW
COP Tj = TOL	4.41	2.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	25 W	25 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1351 kWh	1630 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	159 %	126 %
Prated	13.35 kW	13.51 kW
SCOP	4.06	3.22
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	8.08 kW	8.18 kW
COP T _j = -7°C	3.77	2.94
C _{dh}	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +2°C	4.92 kW	4.93 kW
COP Tj = +2°C	5.72	4.30
Cdh	0.98	0.98
Pdh Tj = +7°C	3.95 kW	3.80 kW
COP Tj = +7°C	7.10	5.47
Cdh	0.96	0.96
Pdh Tj = 12°C	4.47 kW	4.25 kW
COP Tj = 12°C	8.25	7.10
Cdh	0.96	0.96
Pdh Tj = Tbiv	8.08 kW	8.18 kW
COP Tj = Tbiv	3.77	2.94
Pdh Tj = TOL	6.47 kW	6.00 kW
COP Tj = TOL	2.03	1.58
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	25 W	25 W
PSB	24 W	24 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.18 kW	6.80 kW
Annual energy consumption Qhe	8105 kWh	10335 kWh

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL<-20°C)		
Cdh		