

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

Summary of	AEROTOP S07.2	Reg. No.	011-1W0391
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 S07.2		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4 kg		
Certification Date	28.07.2020		

Model: AEROTOP S07.2

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.72 kW	4.76 kW
El input	1.14 kW	1.75 kW
COP	5.02	2.72
Indoor water flow rate	1.00 m ³ /h	0.82 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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	199 %	142 %
Prated	7.90 kW	7.42 kW
SCOP	5.06	3.61
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.99 kW	6.56 kW
COP Tj = -7°C	3.43	2.55
Cdh	0.99	0.99
Pdh Tj = +2°C	5.01 kW	3.89 kW
COP Tj = +2°C	5.01	3.60
Cdh	0.97	0.97
Pdh Tj = +7°C	2.82 kW	2.65 kW
COP Tj = +7°C	6.35	4.65
Cdh	0.94	0.94
Pdh Tj = 12°C	3.09 kW	2.99 kW

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COP Tj = 12°C	7.92	5.86
Cdh	0.93	0.93
Pdh Tj = Tbiv	6.99 kW	6.56 kW
COP Tj = Tbiv	3.43	2.55
Pdh Tj = TOL	7.38 kW	6.96 kW
COP Tj = TOL	3.01	2.01
WTOL	63 °C	63 °C
Poff	35 W	35 W
PTO	36 W	36 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.52 kW	0.46 kW
Annual energy consumption Qhe	3229 kWh	4240 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature

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η_s	245 %	174 %
Prated	7.98 kW	8.02 kW
SCOP	6.20	4.42
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.98 kW	8.02 kW
COP Tj = +2°C	4.18	2.80
Cdh	0.97	0.97
Pdh Tj = +7°C	5.20 kW	5.14 kW
COP Tj = +7°C	5.78	3.89
Cdh	0.94	0.94
Pdh Tj = 12°C	3.04 kW	2.98 kW
COP Tj = 12°C	7.41	5.52
Cdh	0.93	0.93
Pdh Tj = Tbiv	7.98 kW	8.02 kW
COP Tj = Tbiv	4.18	2.80
Pdh Tj = TOL	7.98 kW	8.02 kW
COP Tj = TOL	4.18	4.42
WTOL	63 °C	63 °C
Poff	35 W	35 W
PTO	36 W	36 W

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PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1719 kWh	2427 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	159 %	127 %
Prated	10.50 kW	9.19 kW
SCOP	4.06	3.25
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	6.71 kW	5.87 kW
COP T _j = -7°C	3.79	2.96
C _{dh}	0.99	0.99

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Pdh Tj = +2°C	4.12 kW	3.75 kW
COP Tj = +2°C	5.42	4.13
Cdh	0.97	0.97
Pdh Tj = +7°C	2.78 kW	2.73 kW
COP Tj = +7°C	6.62	5.28
Cdh	0.94	0.94
Pdh Tj = 12°C	3.09 kW	3.05 kW
COP Tj = 12°C	7.92	6.24
Cdh	0.93	0.93
Pdh Tj = Tbiv	6.71 kW	5.87 kW
COP Tj = Tbiv	3.79	2.96
Pdh Tj = TOL	5.55 kW	5.23 kW
COP Tj = TOL	2.26	1.50
WTOL	63 °C	63 °C
Poff	35 W	35 W
PTO	36 W	36 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.95 kW	3.96 kW
Annual energy consumption Qhe	6733 kWh	7352 kWh

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

Model: AEROTOP S07.2_2-parts

General Data

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Heating

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