

Page 1 of 15

#### This information was generated by the HP KEYMARK database on 13 Apr 2022

#### **Login**

Summary of	AEROTOP S07.2	Reg. No.	011-1W0391		
Certificate Holder	Certificate Holder				
Name	ELCO GmbH				
Address	Hohenzollernstrasse 31	Zip	72379		
City	Hechingen	Country	Germany		
Certification Body	DIN CERTCO Gesellschaft für Kon	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Subtype title	AEROTOP S07.2	AEROTOP S07.2			
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R410A				
Mass of Refrigerant	4 kg	4 kg			
Certification Date	28.07.2020				



## **Model: AEROTOP S07.2**

Configure model			
Model name	AEROTOP S07.2		
Application	Heating (medium temp)		
Units	Indoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.72 kW	4.76 kW	
El input	1.14 kW	1.75 kW	
СОР	5.02	2.72	

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**



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

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	5.01 kW	3.89 kW	
COP Tj = +2°C	5.01	3.60	
Cdh Tj = +2 °C	0.97	0.97	
Pdh Tj = +7°C	2.82 kW	2.65 kW	
COP Tj = +7°C	6.35	4.65	
Cdh Tj = +7 °C	0.94	0.94	
Pdh Tj = 12°C	3.09 kW	2.99 kW	

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





		· · · · · · · · · · · · · · · · · · ·
COP Tj = 12°C	7.92	5.86
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	6.99 kW	6.56 kW
COP Tj = Tbiv	3.43	2.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.38 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.01
WTOL	63 °C	63 °C
Poff	35 W	35 W
РТО	36 W	36 W
PSB	15 W	15 W
PCK	o 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





This information was gener	•	'
$\eta_{s}$	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 Tj = +2 °C	0.97	0.97
Pdh Tj = +7°C	5.20 kW	5.14 kW
$COP Tj = +7^{\circ}C$	5.78	3.89
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	3.04 kW	2.98 kW
COP Tj = 12°C	7.41	5.52
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	7.98 kW	8.02 kW
COP Tj = Tbiv	4.18	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.98 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.18	4.42
WTOL	63 °C	63 °C
Poff	35 W	35 W





РТО	36 W	36 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	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
$\eta_{s}$	159 %	127 %
Prated	10.50 kW	9.19 kW
SCOP	4.06	3.25
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.71 kW	5.87 kW
COP Tj = -7°C	3.79	2.96

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.12 kW	3.75 kW
COP Tj = +2°C	5.42	4.13
Cdh Tj = +2 °C	0.97	0.97
Pdh Tj = $+7^{\circ}$ C	2.78 kW	2.73 kW
$COPTj = +7^{\circ}C$	6.62	5.28
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	3.09 kW	3.05 kW
COP Tj = 12°C	7.92	6.24
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	6.71 kW	5.87 kW
COP Tj = Tbiv	3.79	2.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.55 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.26	1.50
WTOL	63 °C	63 °C
Poff	35 W	35 W
РТО	36 W	36 W
PSB	15 W	15 W
РСК	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.95 kW	3.96 kW



Page 8 of 15

Annual energy consumption Qhe	6733 kWh	7352 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		



# Model: AEROTOP S07.2\_2-parts

Configure model		
Model name	AEROTOP S07.2_2-parts	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

### Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	5.72 kW	4.76 kW		
El input	1.14 kW	1.75 kW		
СОР	5.02	2.72		

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.01 kW	3.89 kW
COP Tj = +2°C	5.01	3.60
Cdh Tj = +2 °C	0.97	0.97
Pdh Tj = +7°C	2.82 kW	2.65 kW
COP Tj = +7°C	6.35	4.65
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	3.09 kW	2.99 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





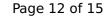
# $$\operatorname{\textit{Page}}\ 11$$ of 15 This information was generated by the HP KEYMARK database on 13 Apr 2022

COP Tj = 12°C	7.92	5.86
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	6.99 kW	6.56 kW
COP Tj = Tbiv	3.43	2.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.38 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.01
WTOL	63 °C	63 °C
Poff	35 W	35 W
РТО	36 W	36 W
PSB	15 W	15 W
PCK	o w	o 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

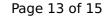
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature





		TIMANN database on 13 Ap
$\eta_{s}$	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 Tj = +2 °C	0.97	0.97
Pdh Tj = +7°C	5.20 kW	5.14 kW
COP Tj = +7°C	5.78	3.89
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	3.04 kW	2.98 kW
COP Tj = 12°C	7.41	5.52
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	7.98 kW	8.02 kW
COP Tj = Tbiv	4.18	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.98 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.18	4.42
WTOL	63 °C	63 °C
Poff	35 W	35 W



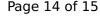


РТО	36 W	36 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1719 kWh	2427 kWh

### 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
$\eta_{s}$	159 %	127 %
Prated	10.50 kW	9.19 kW
SCOP	4.06	3.25
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.71 kW	5.87 kW
COP Tj = -7°C	3.79	2.96





# $$\operatorname{\textit{Page}}\ 14$$ of 15 This information was generated by the HP KEYMARK database on 13 Apr 2022

This information was genera	acca by the in items	database o 13 /.p. 202
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.12 kW	3.75 kW
COP Tj = +2°C	5.42	4.13
Cdh Tj = +2 °C	0.97	0.97
Pdh Tj = +7°C	2.78 kW	2.73 kW
$COPTj = +7^{\circ}C$	6.62	5.28
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	3.09 kW	3.05 kW
COP Tj = 12°C	7.92	6.24
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	6.71 kW	5.87 kW
COP Tj = Tbiv	3.79	2.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.55 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.26	1.50
WTOL	63 °C	63 °C
Poff	35 W	35 W
РТО	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



# $$\operatorname{\textit{Page}}\ 15$$ of 15 This information was generated by the HP KEYMARK database on 13 Apr 2022

Annual energy consumption Qhe	6733 kWh	7352 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		