

This information was generated by the HP KEYMARK database on 22 Jun 2022

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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		
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

### 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
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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

### EN 14511-4

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

## Warmer 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
$\eta_s$	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

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COP $T_j = T_{biv}$	4.18	2.80
P <sub>dh</sub> $T_j = TOL$ or P <sub>dh</sub> $T_j = T_{designh}$ if $TOL < T_{designh}$	7.98 kW	8.02 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.18	4.42
WTOL	63 °C	63 °C
P <sub>off</sub>	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	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q <sub>he</sub>	1719 kWh	2427 kWh

## Colder Climate

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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	159 %	127 %
Prated	10.50 kW	9.19 kW

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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
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
COP Tj = +7°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

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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 Q <sub>he</sub>	6733 kWh	7352 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)		
COP T <sub>j</sub> = -15°C (if TOL<-20°C)		
C <sub>dh</sub> T <sub>j</sub> = -15 °C		

## Average Climate

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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	199 %	142 %
Prated	7.90 kW	7.42 kW
SCOP	5.06	3.61
T <sub>biv</sub>	-7 °C	-7 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

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
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
PTO	36 W	36 W
PSB	15 W	15 W

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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 Q <sub>he</sub>	3229 kWh	4240 kWh



## 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
COP	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

### Warmer Climate

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### EN 12102-1

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

### EN 14825

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