

This information was generated by the HP KEYMARK database on 18 Mar 2022

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Summary of	AEROTOP S05.2	Reg. No.	011-1W0390
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 S05.2		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	4 kg		
Certification Date	28.07.2020		

Model: AEROTOP S05.2

Configure model	
Model name	AEROTOP S05.2
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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.91 kW	4.19 kW
El input	1.14 kW	1.55 kW
COP	4.31	2.77

Average Climate

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EN 14825

	Low temperature	Medium temperature
η_s	180 %	129 %
Prated	5.97 kW	4.75 kW
SCOP	4.58	3.29
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.28 kW	4.20 kW
COP Tj = -7°C	3.57	2.21
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.11 kW	2.67 kW
COP Tj = +2°C	4.64	3.46
Cdh Tj = +2 °C	0.96	0.96
Pdh Tj = +7°C	2.60 kW	2.51 kW
COP Tj = +7°C	5.65	4.18
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	3.07 kW	3.00 kW
COP Tj = 12°C	3.57	5.66
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	5.28 kW	4.20 kW
COP Tj = Tbiv	3.57	2.21

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.84 kW	5.44 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	1.96
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	0.13 kW	0.00 kW
Annual energy consumption Qhe	2691 kWh	2977 kWh

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

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	226 %	163 %
Prated	5.83 kW	5.75 kW
SCOP	5.74	4.14

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Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.83 kW	5.75 kW
COP Tj = +2°C	3.20	2.86
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.70 kW	3.74 kW
COP Tj = +7°C	5.61	3.70
Cdh Tj = +7 °C	0.96	0.96
Pdh Tj = 12°C	3.04 kW	2.97 kW
COP Tj = 12°C	7.24	5.21
Cdh Tj = +12 °C	0.94	0.94
Pdh Tj = Tbiv	5.83 kW	5.75 kW
COP Tj = Tbiv	3.20	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.83 kW	5.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.20	2.86
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

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Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1358 kWh	1854 kWh

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

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	156 %	122 %
Prated	7.00 kW	5.81 kW
SCOP	3.98	3.13
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.47 kW	3.71 kW
COP T _j = -7°C	3.92	2.56

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Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	2.64 kW	2.33 kW
COP Tj = +2°C	5.28	4.24
Cdh Tj = +2 °C	0.96	0.96
Pdh Tj = +7°C	2.63 kW	2.59 kW
COP Tj = +7°C	6.12	4.71
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	3.07 kW	3.05 kW
COP Tj = 12°C	7.49	6.09
Cdh Tj = +12 °C	0.93	0.93
Pdh Tj = Tbiv	4.47 kW	3.71 kW
COP Tj = Tbiv	3.92	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.32 kW	4.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.32	1.55
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	2.68 kW	1.78 kW

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Annual energy consumption Q_{he}	4575 kWh	4824 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)		
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)		
$C_{dh} T_j = -15^{\circ}\text{C}$		

Model: AEROTOP S05.2_2-parts

Configure model

Model name	AEROTOP S05.2_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
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
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EN 14511-2

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