

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

[Login](#)

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 14511-2		
	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

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

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

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	226 %	163 %
Prated	5.83 kW	5.75 kW
SCOP	5.74	4.14
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

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

COP $T_j = T_{biv}$	3.20	2.86
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	5.83 kW	5.75 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	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
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q_{he}	1358 kWh	1854 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	156 %	122 %
Prated	7.00 kW	5.81 kW

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

SCOP	3.98	3.13
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.47 kW	3.71 kW
COP Tj = -7°C	3.92	2.56
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

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

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
Annual energy consumption Q _{he}	4575 kWh	4824 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)		
COP T _j = -15°C (if TOL<-20°C)		
C _{dh} T _j = -15 °C		

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
η_s	180 %	129 %
Prated	5.97 kW	4.75 kW
SCOP	4.58	3.29
T _{biv}	-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	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
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

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

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 Q _{he}	2691 kWh	2977 kWh

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

Heating

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

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

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

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	226 %	163 %
Prated	5.83 kW	5.75 kW
SCOP	5.74	4.14
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

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

COP $T_j = T_{biv}$	3.20	2.86
P _{dh} $T_j = TOL$ or P _{dh} $T_j = T_{designh}$ if $TOL < T_{designh}$	5.83 kW	5.75 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	3.20	2.86
WTOL	63 °C	63 °C
P _{off}	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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1358 kWh	1854 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	156 %	122 %
Prated	7.00 kW	5.81 kW

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

SCOP	3.98	3.13
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.47 kW	3.71 kW
COP Tj = -7°C	3.92	2.56
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

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

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
Annual energy consumption Q _{he}	4575 kWh	4824 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)		
COP T _j = -15°C (if TOL<-20°C)		
C _{dh} T _j = -15 °C		

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
η_s	180 %	129 %
Prated	5.97 kW	4.75 kW
SCOP	4.58	3.29
T _{biv}	-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	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
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

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

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 Q _{he}	2691 kWh	2977 kWh