

Page 1 of 13

This information was generated by the HP KEYMARK database on 7 Jul 2022

Login

Summary of	AQUATOP S17	Reg. No.	011-1W0308	
Certificate Holder				
Name	ELCO GmbH	ELCO GmbH		
Address	Hohenzollernstrasse 31	Zip	72379	
City	Hechingen	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für Kor	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	AQUATOP S17	AQUATOP S17		
Heat Pump Type	Brine/Water and Water/Water			
Refrigerant	R410A			
Mass of Refrigerant	3.8 kg			
Certification Date	04.05.2019			



Model: AQUATOP S17

Configure model		
Model name	AQUATOP S17	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Brine/Water Heat Pump

Heating

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.83 kW	14.78 kW
El input	3.44 kW	5.34 kW
СОР	4.89	2.77

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	200 %	159 %	
Prated	17.00 kW	15.00 kW	
SCOP	5.19	4.19	
Tbiv	2 °C	2 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = +2°C	16.92 kW	15.27 kW	
COP Tj = +2°C	4.67	2.80	
Pdh Tj = +7°C	17.59 kW	16.64 kW	
$COP Tj = +7^{\circ}C$	5.23	3.64	
Pdh Tj = 12°C	17.76 kW	18.47 kW	
COP Tj = 12°C	5.37	5.15	
Pdh Tj = Tbiv	16.92 kW	15.27 kW	
COP Tj = Tbiv	4.67	2.80	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	16.92 kW	15.27 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.80	





Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	0 W	0 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	4354 kWh	4872 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
Low temperature	Medium temperature	
203 %	160 %	
17.00 kW	15.00 kW	
5.28	4.19	
-22 °C	-22 °C	
	Low temperature 203 % 17.00 kW 5.28	





 $$\operatorname{\textit{Page}}\xspace\:5\:\:\text{of}\:13\:\:$ This information was generated by the HP KEYMARK database on 7 Jul 2022

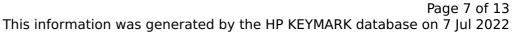
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	17.76 kW	16.79 kW
COP Tj = -7°C	5.37	3.86
Pdh Tj = $+2^{\circ}$ C	17.76 kW	18.01 kW
COP Tj = +2°C	5.37	4.73
Pdh Tj = $+7^{\circ}$ C	17.76 kW	18.78 kW
$COP Tj = +7^{\circ}C$	5.37	5.43
Pdh Tj = 12°C	17.76 kW	19.08 kW
COP Tj = 12°C	5.37	5.74
Pdh Tj = Tbiv	16.92 kW	15.27 kW
COP Tj = Tbiv	4.67	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.92 kW	15.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	o w	o w
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW

|--|

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	201 %	158 %
Prated	17.00 kW	15.00 kW
SCOP	5.22	4.15
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	17.08 kW	15.72 kW
COP Tj = -7°C	5.37	3.05
Pdh Tj = $+2^{\circ}$ C	17.76 kW	17.10 kW
$COP Tj = +2^{\circ}C$	5.37	4.11
Pdh Tj = $+7^{\circ}$ C	17.76 kW	18.17 kW
$COP Tj = +7^{\circ}C$	5.37	4.87
Pdh Tj = 12°C	17.76 kW	19.10 kW





COP Tj = 12°C	5.37	5.74
Pdh Tj = Tbiv	16.92 kW	15.27 kW
COP Tj = Tbiv	4.67	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.92 kW	15.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	20 W	20 W
PSB	20 W	20 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6700 kWh	7605 kWh

Water/Water Heat Pump

Heating

passed

Complete power supply failure

EN 14511-4 Operating range outdoor exchanger/indoor exchanger upper limit/upper limit passed Operating range outdoor exchanger/indoor exchanger lower limit/lower limit passed Shutting off the heat transfer medium flow passed

EN 14511-2		
Low temperature Medium temperature		
Heat output	21.27 kW	19.35 kW
El input	3.53 kW	5.31 kW
СОР	6.03	3.64

Warmer Climate

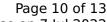
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	260 %	210 %
Prated	21.00 kW	19.00 kW





	•	-
SCOP	6.70	5.44
Tbiv	2 °C	2 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	21.27 kW	19.35 kW
$COP Tj = +2^{\circ}C$	6.03	3.64
Pdh Tj = $+7^{\circ}$ C	22.11 kW	21.09 kW
$COP Tj = +7^{\circ}C$	6.75	4.73
Pdh Tj = 12°C	22.33 kW	23.41 kW
COP Tj = 12°C	6.93	6.70
Pdh Tj = Tbiv	21.27 kW	19.35 kW
COP Tj = Tbiv	6.03	3.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.27 kW	19.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.03	3.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
	ı	





|--|

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	264 %	215 %
Prated	21.00 kW	19.00 kW
SCOP	6.81	5.58
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	22.33 kW	21.28 kW
COP Tj = -7 °C	6.93	5.02
Pdh Tj = +2°C	22.33 kW	22.82 kW
COP Tj = +2°C	6.93	6.15
Pdh Tj = $+7^{\circ}$ C	22.33 kW	23.80 kW
$COP Tj = +7^{\circ}C$	6.93	7.06
Pdh Tj = 12°C	22.33 kW	24.18 kW

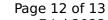


COP Tj = 12°C	6.93	7.46
Pdh Tj = Tbiv	21.27 kW	19.35 kW
COP Tj = Tbiv	6.03	3.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.27 kW	19.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.03	3.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	7701 kWh	8552 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825





	Low temperature	Medium temperature
η_{s}	261 %	207 %
Prated	21.00 kW	19.00 kW
SCOP	6.73	5.39
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	21.47 kW	19.92 kW
COP Tj = -7° C	6.21	3.97
Pdh Tj = +2°C	22.33 kW	21.67 kW
COP Tj = +2°C	6.93	5.34
Pdh Tj = $+7^{\circ}$ C	22.33 kW	23.02 kW
$COP Tj = +7^{\circ}C$	6.93	6.93
Pdh Tj = 12°C	22.33 kW	24.18 kW
COP Tj = 12°C	6.93	7.46
Pdh Tj = Tbiv	21.47 kW	19.35 kW
COP Tj = Tbiv	6.21	3.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.47 kW	19.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.21	3.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	0 W	o w



Page 13 of 13

This information was generated by the HP KEYMARK database on 7 Jul 2022

PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	6526 kWh	7422 kWh