

Summary of	AQUATOP T35H	Reg. No.	011-1W0311	
Certificate Holder				
Name	ELCO GmbH			
Address	Hohenzollernstrasse 31	Zip	72379	
City	Hechingen	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für k	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	TÜV Rheinland Energy GmbH			
Subtype title	AQUATOP T35H			
Heat Pump Type	Brine/Water and Water/Water			
Refrigerant	R407c			
Mass Of Refrigerant	6.2 kg			
Certification Date	04.05.2019			

## **Model: AQUATOP T35H**

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	36.70 kW	34.70 kW	
El input	8.30 kW	11.40 kW	
СОР	4.40	3.00	
Indoor water flow rate	6.13 m³/h	4.52 m³/h	

## **Average Climate**



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	192 %	174 %
Prated	37.00 kW	35.00 kW
SCOP	5.01	4.54
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	37.07 kW	35.74 kW
COP Tj = -7°C	4.49	3.27
Pdh Tj = +2°C	38.17 kW	38.52 kW
COP Tj = +2°C	5.02	4.50
Pdh Tj = +7°C	38.90 kW	39.91 kW
COP Tj = +7°C	5.24	5.28
Pdh Tj = 12°C	39.64 kW	41.64 kW
COP Tj = 12°C	5.54	6.18
Pdh Tj = Tbiv	36.70 kW	34.70 kW
COP Tj = Tbiv	4.40	3.00

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Pdh Tj = TOL	36.70 kW	34.70 kW
COP Tj = TOL	4.40	3.00
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	0 W	o w
РТО	10 W	10 W
PSB	10 W	10 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Elektrizität	Elektrizität
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	15136 kWh	15793 kWh

## Warmer Climate

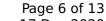
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	193 %	175 %
Prated	37.00 kW	35.00 kW





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SCOP	5.04	4.59
Tbiv	2 °C	2 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	36.70 kW	34.70 kW
COP Tj = +2°C	4.40	3.00
Pdh Tj = +7°C	37.80 kW	37.12 kW
$COPTj = +7^{\circ}C$	4.84	3.99
Pdh Tj = 12°C	38.90 kW	40.60 kW
COP Tj = 12°C	5.32	5.55
Pdh Tj = Tbiv	36.70 kW	34.70 kW
COP Tj = Tbiv	4.40	3.00
Pdh Tj = TOL	36.70 kW	34.70 kW
COP Tj = TOL	4.40	3.00
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	0 W	0 W
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Elektrizität	Elektrizität
Supplementary Heater: PSUP	0.00 kW	0.00 kW





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Annual energy consumption Qhe	9736 kWh	10108 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	180 %
Prated	37.00 kW	35.00 kW
SCOP	5.13	4.71
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	38.17 kW	37.82 kW
COP Tj = -7°C	5.02	4.23
Pdh Tj = +2°C	38.90 kW	39.91 kW
COP Tj = +2°C	5.24	5.13
Pdh Tj = +7°C	39.27 kW	41.29 kW
COP Tj = +7°C	5.46	5.82
Pdh Tj = 12°C	39.64 kW	42.33 kW

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Water/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	38.90 kW	46.00 kW	
El input	9.20 kW	12.60 kW	
СОР	5.30	3.70	
Indoor water flow rate	8.40 m³/h	6.02 m³/h	

## **Average Climate**

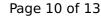
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_s$	229 %	200 %





Prated	49.00 kW	46.00 kW
SCOP	5.93	5.21
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	49.22 kW	47.04 kW
$COPTj = -7^{\circ}C$	5.40	3.92
Pdh Tj = +2°C	50.32 kW	49.82 kW
COP Tj = +2°C	5.93	5.15
Pdh Tj = $+7^{\circ}$ C	51.05 kW	51.21 kW
$COPTj = +7^{\circ}C$	6.15	5.93
Pdh Tj = 12°C	51.79 kW	52.94 kW
COP Tj = 12°C	6.45	6.83
Pdh Tj = Tbiv	48.85 kW	46.00 kW
COP Tj = Tbiv	5.31	3.65
Pdh Tj = TOL	48.85 kW	46.00 kW
COP Tj = TOL	5.31	3.65
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	0 W	o w
РТО	10 W	10 W
PSB	10 W	10 W





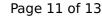
PCK	0 W	o w
Supplementary Heater: Type of energy input	Elektrizität	Elektrizität
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	17006 kWh	18234 kWh

## Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	61 dB(A)	61 dB(A)

EN 14825		
Low temperature	Medium temperature	
230 %	203 %	
49.00 kW	46.00 kW	
5.96	5.27	
2 °C	2 °C	
-22 °C	-22 °C	
48.85 kW	46.00 kW	
5.31	3.65	
49.95 kW	48.42 kW	
5.75	4.64	
	Low temperature  230 %  49.00 kW  5.96  2 °C  -22 °C  48.85 kW  5.31  49.95 kW	

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Pdh Tj = 12°C	51.05 kW	51.90 kW
COP Tj = 12°C	6.23	6.20
Pdh Tj = Tbiv	48.85 kW	46.00 kW
COP Tj = Tbiv	5.31	3.65
Pdh Tj = TOL	48.85 kW	46.00 kW
COP Tj = TOL	5.31	3.65
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	o w	0 W
РТО	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Elektrizität	Elektrizität
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	10958 kWh	11670 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	61 dB(A)	61 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	233 %	204 %
Prated	49.00 kW	46.00 kW
SCOP	6.02	5.30
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	50.32 kW	49.12 kW
COP Tj = -7°C	5.93	4.88
Pdh Tj = +2°C	51.05 kW	51.21 kW
COP Tj = +2°C	6.15	5.78
Pdh Tj = +7°C	51.42 kW	52.59 kW
COP Tj = +7°C	6.37	6.47
Pdh Tj = 12°C	51.79 kW	53.63 kW
COP Tj = 12°C	6.45	6.95
Pdh Tj = Tbiv	48.85 kW	46.00 kW
COP Tj = Tbiv	5.31	3.65
Pdh Tj = TOL	48.85 kW	46.00 kW
COP Tj = TOL	5.31	3.65
Cdh	1.00	1.00
WTOL	60 °C	60 °C



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Poff	0 W	0 W
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Elektrizität	Elektrizität
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	19989 kWh	21386 kWh