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Login

Summary of	AQUATOP T35H	Reg. No.	011-1W0311		
Certificate Holder	Certificate Holder				
Name	ELCO GmbH				
Address	Hohenzollernstrasse 31	Zip	72379		
City	Hechingen	Country	Germany		
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH				
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

Configure model			
Model name	AQUATOP T35H		
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	36.70 kW	34.70 kW
El input	8.30 kW	11.40 kW
СОР	4.40	3.00

Average Climate

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

EN 14825			
	Low temperature	Medium temperature	
η_{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 or Pdh Tj = Tdesignh if TOL < Tdesignh	36.70 kW	34.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.40	3.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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
η_{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
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	36.70 kW	34.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.40	3.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	0 W	o w
РТО	10 W	10 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW



Annual energy consumption Qhe	9736 kWh	10108 kWh	
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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
η_{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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5.54	6.30
36.70 kW	34.70 kW
4.40	3.00
36.70 kW	34.70 kW
4.40	3.00
1.00	1.00
60 °C	60 °C
0 W	0 W
10 W	10 W
10 W	10 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.00 kW
17636 kWh	18161 kWh
	36.70 kW 4.40 36.70 kW 4.40 1.00 60 °C 0 W 10 W 10 W Electricity 0.00 kW

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

Average Climate

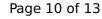
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	229 %	200 %
Prated	49.00 kW	46.00 kW





-10 °C -22 °C kW 47.04 kW 3.92 kW 49.82 kW 5.15 kW 51.21 kW 5.93
kW 47.04 kW 3.92 kW 49.82 kW 5.15 kW 51.21 kW
3.92 kW 49.82 kW 5.15 kW 51.21 kW
kW 49.82 kW 5.15 kW 51.21 kW
5.15 kW 51.21 kW
kW 51.21 kW
5.93
kW 52.94 kW
6.83
kW 46.00 kW
3.65
kW 46.00 kW
3.65
1.00
60 °C
0 W
10 W
10 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
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
η_{s}	230 %	203 %
Prated	49.00 kW	46.00 kW
SCOP	5.96	5.27
Tbiv	2 °C	2 °C
TOL	-22 °C	-22 °C
Pdh Tj = $+2$ °C	48.85 kW	46.00 kW
COP Tj = +2°C	5.31	3.65
Pdh Tj = $+7^{\circ}$ C	49.95 kW	48.42 kW
$COP Tj = +7^{\circ}C$	5.75	4.64
Pdh Tj = 12°C	51.05 kW	51.90 kW





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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 or Pdh Tj = Tdesignh if TOL < Tdesignh	48.85 kW	46.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.31	3.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	0 W	0 W
РТО	10 W	10 W
PSB	10 W	10 W

0 W

Electricity

0.00 kW

10958 kWh

0 W

Electricity

0.00 kW

11670 kWh

Colder Climate

Supplementary Heater: PSUP

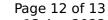
Annual energy consumption Qhe

Supplementary Heater: Type of energy input

PCK

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

EN 14825





This information was gener	Low temperature	Medium temperature
η_{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
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	48.85 kW	46.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.31	3.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	0 W	o w



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РТО	10 W	10 W
PSB	10 W	10 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 Qhe	19989 kWh	21386 kWh