

This information was generated by the HP KEYMARK database on 21 Jun 2022

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| | | | |
|---------------------|---|----------|------------|
| Summary of | AQUATOP S08 | Reg. No. | 011-1W0305 |
| 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 S08 | | |
| Heat Pump Type | Brine/Water and Water/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 2.3 kg | | |
| Certification Date | 04.05.2019 | | |

Model: AQUATOP S08

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | AQUATOP S08 |
| 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 | 7.74 kW | 6.71 kW |
| El input | 1.44 kW | 2.53 kW |
| COP | 4.65 | 2.65 |

Warmer Climate

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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 | 187 % | 155 % |
| Prated | 8.00 kW | 7.00 kW |
| SCOP | 4.89 | 4.08 |
| Tbiv | 2 °C | 2 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = +2°C | 8.25 kW | 7.36 kW |
| COP Tj = +2°C | 4.46 | 2.77 |
| Pdh Tj = +7°C | 8.58 kW | 8.02 kW |
| COP Tj = +7°C | 4.99 | 3.60 |
| Pdh Tj = 12°C | 8.66 kW | 8.90 kW |
| COP Tj = 12°C | 5.12 | 5.09 |
| Pdh Tj = Tbiv | 8.25 kW | 7.36 kW |
| COP Tj = Tbiv | 4.46 | 2.77 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.25 kW | 7.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.46 | 2.77 |

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| | | |
|---|-------------|-------------|
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 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 |
| Annual energy consumption Q_{he} | 2255 kWh | 2408 kWh |

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 | 191 % | 160 % |
| Prated | 8.00 kW | 7.00 kW |
| SCOP | 4.98 | 4.20 |
| Tbiv | -22 °C | -22 °C |

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| | | |
|---|-------------|-------------|
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.66 kW | 8.09 kW |
| COP Tj = -7°C | 5.12 | 3.82 |
| Pdh Tj = +2°C | 8.68 kW | 8.68 kW |
| COP Tj = +2°C | 5.12 | 4.68 |
| Pdh Tj = +7°C | 8.68 kW | 9.05 kW |
| COP Tj = +7°C | 5.12 | 5.37 |
| Pdh Tj = 12°C | 8.68 kW | 9.20 kW |
| COP Tj = 12°C | 5.12 | 5.67 |
| Pdh Tj = Tbiv | 8.25 kW | 7.36 kW |
| COP Tj = Tbiv | 4.46 | 2.77 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.25 kW | 7.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.46 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 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 |

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| | | |
|------------------------------------|----------|----------|
| Annual energy consumption Q_{he} | 4086 kWh | 4323 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 | 189 % | 154 % |
| Prated | 8.00 kW | 7.00 kW |
| SCOP | 4.92 | 4.06 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.33 kW | 7.58 kW |
| COP Tj = -7°C | 4.59 | 3.01 |
| Pdh Tj = +2°C | 8.66 kW | 8.24 kW |
| COP Tj = +2°C | 5.12 | 4.07 |
| Pdh Tj = +7°C | 8.66 kW | 8.75 kW |
| COP Tj = +7°C | 5.12 | 4.81 |
| Pdh Tj = 12°C | 8.25 kW | 9.20 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 5.12 | 5.67 |
| Pdh Tj = Tbiv | 8.25 kW | 7.36 kW |
| COP Tj = Tbiv | 4.46 | 2.77 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.25 kW | 7.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.46 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 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 |
| Annual energy consumption Qhe | 3461 kWh | 3749 kWh |

Water/Water Heat Pump

Heating

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| 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 | 9.84 kW | 8.95 kW |
| El input | 1.73 kW | 2.60 kW |
| COP | 5.69 | 3.44 |

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 | 241 % | 195 % |
| Prated | 10.00 kW | 9.00 kW |

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| | | |
|---|-------------|-------------|
| SCOP | 6.23 | 5.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = +2°C | 9.84 kW | 8.95 kW |
| COP Tj = +2°C | 5.69 | 3.44 |
| Pdh Tj = +7°C | 10.23 kW | 9.75 kW |
| COP Tj = +7°C | 6.37 | 4.47 |
| Pdh Tj = 12°C | 10.33 kW | 10.82 kW |
| COP Tj = 12°C | 6.53 | 6.32 |
| Pdh Tj = Tbiv | 9.84 kW | 8.95 kW |
| COP Tj = Tbiv | 5.69 | 3.44 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.84 kW | 8.95 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.69 | 3.44 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 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 |

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| | | |
|------------------------------------|----------|----------|
| Annual energy consumption Q_{he} | 2112 kWh | 2360 kWh |
|------------------------------------|----------|----------|

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 | 246 % | 200 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 6.34 | 5.21 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 10.33 kW | 9.84 kW |
| COP Tj = -7°C | 3.44 | 4.74 |
| Pdh Tj = +2°C | 10.33 kW | 10.56 kW |
| COP Tj = +2°C | 6.53 | 5.81 |
| Pdh Tj = +7°C | 10.33 kW | 11.01 kW |
| COP Tj = +7°C | 6.53 | 6.67 |
| Pdh Tj = 12°C | 10.33 kW | 11.19 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 6.53 | 7.04 |
| Pdh Tj = Tbiv | 9.84 kW | 8.95 kW |
| COP Tj = Tbiv | 5.69 | 3.44 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.84 kW | 8.95 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.69 | 3.44 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 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 |
| Annual energy consumption Qhe | 3826 kWh | 4235 kWh |

Average Climate

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

| EN 14825 |
|-----------------|
|-----------------|

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| | Low temperature | Medium temperature |
|---|------------------------|---------------------------|
| η_s | 243 % | 193 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 6.28 | 5.04 |
| Tbiv | -10 °C | -10 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.94 kW | 9.22 kW |
| COP Tj = -7°C | 5.86 | 3.74 |
| Pdh Tj = +2°C | 10.33 kW | 10.02 kW |
| COP Tj = +2°C | 6.53 | 5.05 |
| Pdh Tj = +7°C | 10.33 kW | 10.64 kW |
| COP Tj = +7°C | 6.53 | 5.97 |
| Pdh Tj = 12°C | 10.33 kW | 11.19 kW |
| COP Tj = 12°C | 6.53 | 7.04 |
| Pdh Tj = Tbiv | 9.84 kW | 8.95 kW |
| COP Tj = Tbiv | 5.69 | 3.44 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.84 kW | 8.95 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.69 | 3.44 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |

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| | | |
|--|-------------|-------------|
| 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 Q _{he} | 3238 kWh | 3671 kWh |