

This information was generated by the HP KEYMARK database on 18 Mar 2022

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| | | | |
|---------------------|-----------------------------|----------|---------------|
| Summary of | Mega L | Reg. No. | 012-SC0834-18 |
| Certificate Holder | | | |
| Name | Thermia | | |
| Address | Snickaregatan 1 | Zip | |
| City | Arvika | Country | Sweden |
| Certification Body | RISE CERT | | |
| Subtype title | Mega L | | |
| Heat Pump Type | Brine/Water and Water/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 6.3 kg | | |
| Certification Date | 10.04.2019 | | |

Model: Thermia Mega L 2020

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | Thermia Mega L 2020 |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 34.97 kW | 31.56 kW |
| El input | 7.76 kW | 11.04 kW |
| COP | 4.51 | 2.86 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 200 % | 155 % |
| Prated | 59.64 kW | 55.34 kW |
| SCOP | 5.19 | 4.07 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 52.76 kW | 48.96 kW |
| COP Tj = -7°C | 4.26 | 3.01 |
| Pdh Tj = +2°C | 32.11 kW | 29.80 kW |
| COP Tj = +2°C | 5.23 | 4.11 |
| Pdh Tj = +7°C | 20.64 kW | 19.16 kW |
| COP Tj = +7°C | 5.74 | 4.84 |
| Pdh Tj = 12°C | 16.56 kW | 16.33 kW |
| COP Tj = 12°C | 5.58 | 4.66 |
| Pdh Tj = Tbiv | 59.64 kW | 55.34 kW |
| COP Tj = Tbiv | 3.93 | 2.77 |

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| | | |
|---|-----------|-----------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 59.64 kW | 55.34 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 23714 kWh | 28063 kWh |

Warmer Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 203 % | 157 % |
| Prated | 59.64 kW | 55.34 kW |

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| | | |
|---|----------|----------|
| SCOP | 5.28 | 4.13 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 59.64 kW | 55.34 kW |
| COP Tj = +2°C | 3.93 | 2.77 |
| Pdh Tj = +7°C | 38.34 kW | 35.58 kW |
| COP Tj = +7°C | 5.00 | 3.69 |
| Pdh Tj = 12°C | 17.04 kW | 15.81 kW |
| COP Tj = 12°C | 5.79 | 4.85 |
| Pdh Tj = Tbiv | 59.64 kW | 55.34 kW |
| COP Tj = Tbiv | 3.93 | 2.77 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 59.64 kW | 55.34 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |

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| | | |
|------------------------------------|-----------|-----------|
| Annual energy consumption Q_{he} | 15055 kWh | 17857 kWh |
|------------------------------------|-----------|-----------|

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 204 % | 160 % |
| Prated | 59.64 kW | 55.34 kW |
| SCOP | 5.29 | 4.20 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 35.77 kW | 33.80 kW |
| COP Tj = -7°C | 5.14 | 3.85 |
| Pdh Tj = +2°C | 21.97 kW | 20.39 kW |
| COP Tj = +2°C | 5.71 | 4.59 |
| Pdh Tj = +7°C | 16.74 kW | 16.35 kW |
| COP Tj = +7°C | 5.86 | 4.85 |
| Pdh Tj = 12°C | 16.58 kW | 16.38 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-----------|-----------|
| COP Tj = 12°C | 5.58 | 4.88 |
| Pdh Tj = Tbiv | 59.64 kW | 55.34 kW |
| COP Tj = Tbiv | 3.93 | 2.77 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 59.64 kW | 55.34 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 27759 kWh | 32491 kWh |

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 | 48.57 kW | 43.13 kW |
| El input | 8.51 kW | 11.59 kW |
| COP | 5.71 | 3.72 |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 264 % | 206 % |
| Prated | 51.32 kW | 53.23 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|----------|
| SCOP | 6.80 | 5.35 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 45.39 kW | 47.08 kW |
| COP Tj = -7°C | 5.63 | 3.98 |
| Pdh Tj = +2°C | 27.63 kW | 28.66 kW |
| COP Tj = +2°C | 6.92 | 5.43 |
| Pdh Tj = +7°C | 21.64 kW | 21.02 kW |
| COP Tj = +7°C | 7.32 | 6.08 |
| Pdh Tj = 12°C | 21.70 kW | 21.25 kW |
| COP Tj = 12°C | 7.45 | 6.43 |
| Pdh Tj = Tbiv | 51.32 kW | 53.23 kW |
| COP Tj = Tbiv | 5.35 | 3.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 51.32 kW | 53.23 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.35 | 3.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-----------|-----------|
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 15600 kWh | 20546 kWh |

Warmer Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 265 % | 207 % |
| Prated | 51.32 kW | 53.23 kW |
| SCOP | 6.83 | 5.38 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 51.32 kW | 53.23 kW |
| COP T _j = +2°C | 5.35 | 3.65 |
| P _{dh} T _j = +7°C | 32.99 kW | 34.22 kW |
| COP T _j = +7°C | 6.59 | 4.90 |
| P _{dh} T _j = 12°C | 21.67 kW | 21.11 kW |

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| | | |
|---|-----------|-----------|
| COP T _j = 12°C | 7.37 | 6.21 |
| P _{dh} T _j = T _{biv} | 51.32 kW | 53.23 kW |
| COP T _j = T _{biv} | 5.35 | 3.65 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 51.32 kW | 53.23 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 5.35 | 3.65 |
| 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 |
| P _{off} | 9 W | 9 W |
| P _{TO} | 11 W | 11 W |
| P _{SB} | 18 W | 18 W |
| P _{CK} | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 10032 kWh | 13221 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

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

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | Low temperature | Medium temperature |
|---|------------------------|---------------------------|
| η_s | 272 % | 215 % |
| Prated | 51.32 kW | 53.23 kW |
| SCOP | 6.99 | 5.57 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 31.06 kW | 32.22 kW |
| COP Tj = -7°C | 6.78 | 5.15 |
| Pdh Tj = +2°C | 21.66 kW | 19.61 kW |
| COP Tj = +2°C | 7.37 | 6.08 |
| Pdh Tj = +7°C | 21.70 kW | 21.22 kW |
| COP Tj = +7°C | 7.45 | 6.37 |
| Pdh Tj = 12°C | 21.65 kW | 21.36 kW |
| COP Tj = 12°C | 7.34 | 6.60 |
| Pdh Tj = Tbiv | 51.32 kW | 53.23 kW |
| COP Tj = Tbiv | 5.35 | 3.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 51.32 kW | 53.23 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.35 | 3.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-----------|-----------|
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 18086 kWh | 23548 kWh |

Model: Thermia Mega L

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | Thermia Mega L |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 34.97 kW | 31.56 kW |
| El input | 7.76 kW | 11.04 kW |
| COP | 4.51 | 2.86 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 200 % | 155 % |
| Prated | 59.64 kW | 55.34 kW |
| SCOP | 5.19 | 4.07 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 52.76 kW | 48.96 kW |
| COP Tj = -7°C | 4.26 | 3.01 |
| Pdh Tj = +2°C | 32.11 kW | 29.80 kW |
| COP Tj = +2°C | 5.23 | 4.11 |
| Pdh Tj = +7°C | 20.64 kW | 19.16 kW |
| COP Tj = +7°C | 5.74 | 4.84 |
| Pdh Tj = 12°C | 16.56 kW | 16.33 kW |
| COP Tj = 12°C | 5.58 | 4.66 |
| Pdh Tj = Tbiv | 59.64 kW | 55.34 kW |
| COP Tj = Tbiv | 3.93 | 2.77 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-----------|-----------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 59.64 kW | 55.34 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 23714 kWh | 28063 kWh |

Warmer Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 203 % | 157 % |
| Prated | 59.64 kW | 55.34 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|----------|
| SCOP | 5.28 | 4.13 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 59.64 kW | 55.34 kW |
| COP Tj = +2°C | 3.93 | 2.77 |
| Pdh Tj = +7°C | 38.34 kW | 35.58 kW |
| COP Tj = +7°C | 5.00 | 3.69 |
| Pdh Tj = 12°C | 17.04 kW | 15.81 kW |
| COP Tj = 12°C | 5.79 | 4.85 |
| Pdh Tj = Tbiv | 59.64 kW | 55.34 kW |
| COP Tj = Tbiv | 3.93 | 2.77 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 59.64 kW | 55.34 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-----------|-----------|
| Annual energy consumption Q _{he} | 15055 kWh | 17857 kWh |
|---|-----------|-----------|

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 204 % | 160 % |
| Prated | 59.64 kW | 55.34 kW |
| SCOP | 5.29 | 4.20 |
| T _{biv} | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| P _{dh} T _j = -7°C | 35.77 kW | 33.80 kW |
| COP T _j = -7°C | 5.14 | 3.85 |
| P _{dh} T _j = +2°C | 21.97 kW | 20.39 kW |
| COP T _j = +2°C | 5.71 | 4.59 |
| P _{dh} T _j = +7°C | 16.74 kW | 16.35 kW |
| COP T _j = +7°C | 5.86 | 4.85 |
| P _{dh} T _j = 12°C | 16.58 kW | 16.38 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-----------|-----------|
| COP Tj = 12°C | 5.58 | 4.88 |
| Pdh Tj = Tbiv | 59.64 kW | 55.34 kW |
| COP Tj = Tbiv | 3.93 | 2.77 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 59.64 kW | 55.34 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.93 | 2.77 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 27759 kWh | 32491 kWh |

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 | 48.57 kW | 43.13 kW |
| El input | 8.51 kW | 11.59 kW |
| COP | 5.71 | 3.72 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 264 % | 206 % |
| Prated | 51.32 kW | 53.23 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|----------|
| SCOP | 6.80 | 5.35 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 45.39 kW | 47.08 kW |
| COP Tj = -7°C | 5.63 | 3.98 |
| Pdh Tj = +2°C | 27.63 kW | 28.66 kW |
| COP Tj = +2°C | 6.92 | 5.43 |
| Pdh Tj = +7°C | 21.64 kW | 21.02 kW |
| COP Tj = +7°C | 7.32 | 6.08 |
| Pdh Tj = 12°C | 21.70 kW | 21.25 kW |
| COP Tj = 12°C | 7.45 | 6.43 |
| Pdh Tj = Tbiv | 51.32 kW | 53.23 kW |
| COP Tj = Tbiv | 5.35 | 3.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 51.32 kW | 53.23 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.35 | 3.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-----------|-----------|
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 15600 kWh | 20546 kWh |

Warmer Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 265 % | 207 % |
| Prated | 51.32 kW | 53.23 kW |
| SCOP | 6.83 | 5.38 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 51.32 kW | 53.23 kW |
| COP T _j = +2°C | 5.35 | 3.65 |
| P _{dh} T _j = +7°C | 32.99 kW | 34.22 kW |
| COP T _j = +7°C | 6.59 | 4.90 |
| P _{dh} T _j = 12°C | 21.67 kW | 21.11 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-----------|-----------|
| COP Tj = 12°C | 7.37 | 6.21 |
| Pdh Tj = Tbiv | 51.32 kW | 53.23 kW |
| COP Tj = Tbiv | 5.35 | 3.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 51.32 kW | 53.23 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.35 | 3.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 10032 kWh | 13221 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |

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

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | Low temperature | Medium temperature |
|---|------------------------|---------------------------|
| η_s | 272 % | 215 % |
| Prated | 51.32 kW | 53.23 kW |
| SCOP | 6.99 | 5.57 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 31.06 kW | 32.22 kW |
| COP Tj = -7°C | 6.78 | 5.15 |
| Pdh Tj = +2°C | 21.66 kW | 19.61 kW |
| COP Tj = +2°C | 7.37 | 6.08 |
| Pdh Tj = +7°C | 21.70 kW | 21.22 kW |
| COP Tj = +7°C | 7.45 | 6.37 |
| Pdh Tj = 12°C | 21.65 kW | 21.36 kW |
| COP Tj = 12°C | 7.34 | 6.60 |
| Pdh Tj = Tbiv | 51.32 kW | 53.23 kW |
| COP Tj = Tbiv | 5.35 | 3.65 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 51.32 kW | 53.23 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.35 | 3.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 9 W | 9 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-----------|-----------|
| PTO | 11 W | 11 W |
| PSB | 18 W | 18 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 18086 kWh | 23548 kWh |