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| | | | |
|---------------------|---|----------|------------|
| Summary of | Buderus Logatherm WLW196i-6 AR and IR, Buderus Logatherm WLW196i.2-4 AR | Reg. No. | 011-1W0128 |
| Certificate Holder | | | |
| Name | Bosch Thermotechnik GmbH (Buderus) | | |
| Address | Sophienstraße 30-32 | Zip | 35576 |
| City | Wetzlar | Country | Germany |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | |
| Subtype title | Buderus Logatherm WLW196i-6 AR and IR, Buderus Logatherm WLW196i.2-4 AR | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 1.75 kg | | |
| Certification Date | 18.07.2017 | | |
| Testing basis | HP KEYMARK certification scheme rules rev. 8 | | |

Model: Buderus Logatherm WLW196i-6 ARE

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | Buderus Logatherm WLW196i-6 ARE |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.40 kW |
| El input | 0.43 kW | 0.88 kW |
| COP | 5.27 | 2.75 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 261 % | 175 % |
| Prated | 6.27 kW | 5.60 kW |
| SCOP | 6.59 | 4.45 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.27 kW | 5.60 kW |
| COP Tj = +2°C | 3.05 | 2.19 |
| Pdh Tj = +7°C | 4.09 kW | 3.77 kW |
| COP Tj = +7°C | 5.70 | 3.86 |
| Pdh Tj = 12°C | 1.79 kW | 2.54 kW |
| COP Tj = 12°C | 8.77 | 5.94 |
| Pdh Tj = Tbiv | 6.27 kW | 5.60 kW |
| COP Tj = Tbiv | 3.05 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.27 kW | 5.60 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.05 | 2.19 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1270 kWh | 1683 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 178 % | 130 % |
| Prated | 5.11 kW | 4.82 kW |
| SCOP | 4.53 | 3.32 |

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| | | |
|---|-------------|-------------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -19 °C |
| Pdh Tj = -7°C | 3.20 kW | 3.01 kW |
| COP Tj = -7°C | 3.61 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.19 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 4.20 kW |
| COP Tj = Tbiv | 2.43 | 1.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.07 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.25 | 1.65 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.11 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 2781 kWh | 3575 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.68 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 202 % | 143 % |
| P_{rated} | 5.43 kW | 4.56 kW |
| SCOP | 5.13 | 3.65 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.91 kW | 4.26 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 3.08 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.92 kW | 2.57 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 5.00 | 3.66 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.68 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.38 | 6.14 |
| Pdh Tj = Tbiv | 5.43 kW | 4.56 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.43 kW | 4.56 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2190 kWh | 2580 kWh |

Model: Buderus Logatherm WLW196i-6 ARB

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | Buderus Logatherm WLW196i-6 ARB |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.40 kW |
| El input | 0.43 kW | 0.88 kW |
| COP | 5.27 | 2.75 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 261 % | 175 % |
| Prated | 6.27 kW | 5.60 kW |
| SCOP | 6.59 | 4.45 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.27 kW | 5.60 kW |
| COP Tj = +2°C | 3.05 | 2.19 |
| Pdh Tj = +7°C | 4.09 kW | 3.77 kW |
| COP Tj = +7°C | 5.70 | 3.86 |
| Pdh Tj = 12°C | 1.79 kW | 2.54 kW |
| COP Tj = 12°C | 8.77 | 5.94 |
| Pdh Tj = Tbiv | 6.27 kW | 5.60 kW |
| COP Tj = Tbiv | 3.05 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.27 kW | 5.60 kW |

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| | | |
|---|----------|----------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.05 | 2.19 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1270 kWh | 1683 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 178 % | 130 % |
| Prated | 5.11 kW | 4.82 kW |
| SCOP | 4.53 | 3.32 |

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| | | |
|---|---------|---------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -19 °C |
| Pdh Tj = -7°C | 3.20 kW | 3.01 kW |
| COP Tj = -7°C | 3.61 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.19 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 4.20 kW |
| COP Tj = Tbiv | 2.43 | 1.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.07 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.25 | 1.65 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 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} | 2781 kWh | 3575 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.68 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 202 % | 143 % |
| P_{rated} | 5.43 kW | 4.56 kW |
| SCOP | 5.13 | 3.65 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.91 kW | 4.26 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 3.08 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.92 kW | 2.57 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 5.00 | 3.66 |

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| | | |
|---|----------|----------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.68 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.38 | 6.14 |
| Pdh Tj = Tbiv | 5.43 kW | 4.56 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.43 kW | 4.56 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2190 kWh | 2580 kWh |

Model: Buderus Logatherm WLW196i-6 ART190

| Configure model | |
|-------------------------------------|------------------------------------|
| Model name | Buderus Logatherm WLW196i-6 ART190 |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.40 kW |
| El input | 0.43 kW | 0.88 kW |
| COP | 5.27 | 2.75 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 261 % | 175 % |
| Prated | 6.27 kW | 5.60 kW |
| SCOP | 6.59 | 4.45 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.27 kW | 5.60 kW |
| COP Tj = +2°C | 3.05 | 2.19 |
| Pdh Tj = +7°C | 4.09 kW | 3.77 kW |
| COP Tj = +7°C | 5.70 | 3.86 |
| Pdh Tj = 12°C | 1.79 kW | 2.54 kW |
| COP Tj = 12°C | 8.77 | 5.94 |
| Pdh Tj = Tbiv | 6.27 kW | 5.60 kW |
| COP Tj = Tbiv | 3.05 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.27 kW | 5.60 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.05 | 2.19 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1270 kWh | 1683 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 178 % | 130 % |
| Prated | 5.11 kW | 4.82 kW |
| SCOP | 4.53 | 3.32 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -19 °C |
| Pdh Tj = -7°C | 3.20 kW | 3.01 kW |
| COP Tj = -7°C | 3.61 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.19 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 4.20 kW |
| COP Tj = Tbiv | 2.43 | 1.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.07 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.25 | 1.65 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.11 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 2781 kWh | 3575 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.68 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 202 % | 143 % |
| P_{rated} | 5.43 kW | 4.56 kW |
| SCOP | 5.13 | 3.65 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.91 kW | 4.26 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 3.08 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.92 kW | 2.57 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 5.00 | 3.66 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.68 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.38 | 6.14 |
| Pdh Tj = Tbiv | 5.43 kW | 4.56 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.43 kW | 4.56 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2190 kWh | 2580 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 119 % |
| COP | 2.79 |
| Heating up time | 02:31 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 54.2 °C |
| Mixed water at 40°C | 271 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 97 % |
| COP | 2.26 |
| Heating up time | 04:04 h:min |
| Standby power input | 64.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 271 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 106 % |
| COP | 2.48 |
| Heating up time | 03:14 h:min |
| Standby power input | 51.0 W |
| Reference hot water temperature | 54.3 °C |
| Mixed water at 40°C | 273 l |

Model: Buderus Logatherm WLW196i-6 ARTS185

| Configure model | |
|-------------------------------------|-------------------------------------|
| Model name | Buderus Logatherm WLW196i-6 ARTS185 |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.40 kW |
| El input | 0.43 kW | 0.88 kW |
| COP | 5.27 | 2.75 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 261 % | 175 % |
| Prated | 6.27 kW | 5.60 kW |
| SCOP | 6.59 | 4.45 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.27 kW | 5.60 kW |
| COP Tj = +2°C | 3.05 | 2.19 |
| Pdh Tj = +7°C | 4.09 kW | 3.77 kW |
| COP Tj = +7°C | 5.70 | 3.86 |
| Pdh Tj = 12°C | 1.79 kW | 2.54 kW |
| COP Tj = 12°C | 8.77 | 5.94 |
| Pdh Tj = Tbiv | 6.27 kW | 5.60 kW |
| COP Tj = Tbiv | 3.05 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.27 kW | 5.60 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.05 | 2.19 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1270 kWh | 1683 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 178 % | 130 % |
| Prated | 5.11 kW | 4.82 kW |
| SCOP | 4.53 | 3.32 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -19 °C |
| Pdh Tj = -7°C | 3.20 kW | 3.01 kW |
| COP Tj = -7°C | 3.61 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.19 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 4.20 kW |
| COP Tj = Tbiv | 2.43 | 1.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.07 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.25 | 1.65 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.11 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 2781 kWh | 3575 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.68 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 202 % | 143 % |
| P_{rated} | 5.43 kW | 4.56 kW |
| SCOP | 5.13 | 3.65 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.91 kW | 4.26 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 3.08 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.92 kW | 2.57 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 5.00 | 3.66 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.68 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.38 | 6.14 |
| Pdh Tj = Tbiv | 5.43 kW | 4.56 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.43 kW | 4.56 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2190 kWh | 2580 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 109 % |
| COP | 2.58 |
| Heating up time | 02:34 h:min |
| Standby power input | 47.0 W |
| Reference hot water temperature | 52.8 °C |
| Mixed water at 40°C | 257 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 95 % |
| COP | 2.21 |
| Heating up time | 04:09 h:min |
| Standby power input | 73.0 W |
| Reference hot water temperature | 51.2 °C |
| Mixed water at 40°C | 259 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 103 % |
| COP | 2.43 |
| Heating up time | 03:18 h:min |
| Standby power input | 53.0 W |
| Reference hot water temperature | 53.2 °C |
| Mixed water at 40°C | 263 l |

Model: Buderus Logatherm WLW196i-6 IRE

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | Buderus Logatherm WLW196i-6 IRE |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.34 kW |
| El input | 0.46 kW | 0.87 kW |
| COP | 4.96 | 2.67 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 255 % | 163 % |
| Prated | 5.77 kW | 5.08 kW |
| SCOP | 6.45 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.77 kW | 5.08 kW |
| COP Tj = +2°C | 2.91 | 2.09 |
| Pdh Tj = +7°C | 3.39 kW | 3.55 kW |
| COP Tj = +7°C | 5.70 | 3.62 |
| Pdh Tj = 12°C | 1.79 kW | 2.42 kW |
| COP Tj = 12°C | 8.45 | 5.56 |
| Pdh Tj = Tbiv | 5.77 kW | 5.08 kW |
| COP Tj = Tbiv | 2.91 | 2.09 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.77 kW | 5.08 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.91 | 2.09 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1195 kWh | 1631 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 128 % |
| Prated | 5.27 kW | 4.82 kW |
| SCOP | 4.27 | 3.28 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -16 °C | -15 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 3.20 kW | 2.91 kW |
| COP Tj = -7°C | 3.17 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.14 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 3.89 kW |
| COP Tj = Tbiv | 2.43 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.50 kW | 3.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.07 | 1.64 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.27 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 3040 kWh | 3621 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.44 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 184 % | 140 % |
| P_{rated} | 5.18 kW | 4.20 kW |
| SCOP | 4.68 | 3.57 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.67 kW | 3.86 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 2.95 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.81 kW | 2.38 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 4.26 | 3.66 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.43 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.06 | 5.56 |
| Pdh Tj = Tbiv | 5.18 kW | 4.20 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW | 4.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2289 kWh | 2431 kWh |

Model: Buderus Logatherm WLW196i-6 IRB

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | Buderus Logatherm WLW196i-6 IRB |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.34 kW |
| El input | 0.46 kW | 0.87 kW |
| COP | 4.96 | 2.67 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 255 % | 163 % |
| Prated | 5.77 kW | 5.08 kW |
| SCOP | 6.45 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.77 kW | 5.08 kW |
| COP Tj = +2°C | 2.91 | 2.09 |
| Pdh Tj = +7°C | 3.39 kW | 3.55 kW |
| COP Tj = +7°C | 5.70 | 3.62 |
| Pdh Tj = 12°C | 1.79 kW | 2.42 kW |
| COP Tj = 12°C | 8.45 | 5.56 |
| Pdh Tj = Tbiv | 5.77 kW | 5.08 kW |
| COP Tj = Tbiv | 2.91 | 2.09 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.77 kW | 5.08 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|----------|----------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.91 | 2.09 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1195 kWh | 1631 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 128 % |
| Prated | 5.27 kW | 4.82 kW |
| SCOP | 4.27 | 3.28 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|---------|---------|
| Tbiv | -16 °C | -15 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 3.20 kW | 2.91 kW |
| COP Tj = -7°C | 3.17 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.14 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 3.89 kW |
| COP Tj = Tbiv | 2.43 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.50 kW | 3.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.07 | 1.64 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 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 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 3040 kWh | 3621 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.44 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 184 % | 140 % |
| P_{rated} | 5.18 kW | 4.20 kW |
| SCOP | 4.68 | 3.57 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.67 kW | 3.86 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 2.95 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.81 kW | 2.38 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 4.26 | 3.66 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|----------|----------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.43 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.06 | 5.56 |
| Pdh Tj = Tbiv | 5.18 kW | 4.20 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW | 4.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2289 kWh | 2431 kWh |

Model: Buderus Logatherm WLW196i-6 IRT190

| Configure model | |
|-------------------------------------|------------------------------------|
| Model name | Buderus Logatherm WLW196i-6 IRT190 |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.34 kW |
| El input | 0.46 kW | 0.87 kW |
| COP | 4.96 | 2.67 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 255 % | 163 % |
| Prated | 5.77 kW | 5.08 kW |
| SCOP | 6.45 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.77 kW | 5.08 kW |
| COP Tj = +2°C | 2.91 | 2.09 |
| Pdh Tj = +7°C | 3.39 kW | 3.55 kW |
| COP Tj = +7°C | 5.70 | 3.62 |
| Pdh Tj = 12°C | 1.79 kW | 2.42 kW |
| COP Tj = 12°C | 8.45 | 5.56 |
| Pdh Tj = Tbiv | 5.77 kW | 5.08 kW |
| COP Tj = Tbiv | 2.91 | 2.09 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.77 kW | 5.08 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.91 | 2.09 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1195 kWh | 1631 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 128 % |
| Prated | 5.27 kW | 4.82 kW |
| SCOP | 4.27 | 3.28 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -16 °C | -15 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 3.20 kW | 2.91 kW |
| COP Tj = -7°C | 3.17 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.14 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 3.89 kW |
| COP Tj = Tbiv | 2.43 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.50 kW | 3.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.07 | 1.64 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.27 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 3040 kWh | 3621 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.44 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 184 % | 140 % |
| P_{rated} | 5.18 kW | 4.20 kW |
| SCOP | 4.68 | 3.57 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.67 kW | 3.86 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 2.95 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.81 kW | 2.38 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 4.26 | 3.66 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.43 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.06 | 5.56 |
| Pdh Tj = Tbiv | 5.18 kW | 4.20 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW | 4.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2289 kWh | 2431 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 119 % |
| COP | 2.80 |
| Heating up time | 02:31 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 54.2 °C |
| Mixed water at 40°C | 271 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 97 % |
| COP | 2.26 |
| Heating up time | 04:04 h:min |
| Standby power input | 64.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 271 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 106 % |
| COP | 2.48 |
| Heating up time | 03:14 h:min |
| Standby power input | 51.0 W |
| Reference hot water temperature | 54.3 °C |
| Mixed water at 40°C | 273 l |

Model: Buderus Logatherm WLW196i-6 IRTS185

| Configure model | |
|-------------------------------------|-------------------------------------|
| Model name | Buderus Logatherm WLW196i-6 IRTS185 |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.34 kW |
| El input | 0.46 kW | 0.87 kW |
| COP | 4.96 | 2.67 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 255 % | 163 % |
| Prated | 5.77 kW | 5.08 kW |
| SCOP | 6.45 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.77 kW | 5.08 kW |
| COP Tj = +2°C | 2.91 | 2.09 |
| Pdh Tj = +7°C | 3.39 kW | 3.55 kW |
| COP Tj = +7°C | 5.70 | 3.62 |
| Pdh Tj = 12°C | 1.79 kW | 2.42 kW |
| COP Tj = 12°C | 8.45 | 5.56 |
| Pdh Tj = Tbiv | 5.77 kW | 5.08 kW |
| COP Tj = Tbiv | 2.91 | 2.09 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.77 kW | 5.08 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.91 | 2.09 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1195 kWh | 1631 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 128 % |
| Prated | 5.27 kW | 4.82 kW |
| SCOP | 4.27 | 3.28 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -16 °C | -15 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 3.20 kW | 2.91 kW |
| COP Tj = -7°C | 3.17 | 2.72 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.73 | 4.24 |
| Pdh Tj = +7°C | 1.14 kW | 2.15 kW |
| COP Tj = +7°C | 7.41 | 5.03 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 8.16 | 6.52 |
| Pdh Tj = Tbiv | 4.45 kW | 3.89 kW |
| COP Tj = Tbiv | 2.43 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.50 kW | 3.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.07 | 1.64 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.27 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 3040 kWh | 3621 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 1.97 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.44 | 1.97 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 184 % | 140 % |
| P_{rated} | 5.18 kW | 4.20 kW |
| SCOP | 4.68 | 3.57 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.67 kW | 3.86 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 2.95 | 2.24 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.81 kW | 2.38 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 4.26 | 3.66 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.99 | 4.43 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 8.06 | 5.56 |
| Pdh Tj = Tbiv | 5.18 kW | 4.20 kW |
| COP Tj = Tbiv | 2.64 | 1.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW | 4.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.89 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2289 kWh | 2431 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 109 % |
| COP | 2.58 |
| Heating up time | 02:34 h:min |
| Standby power input | 47.0 W |
| Reference hot water temperature | 52.8 °C |
| Mixed water at 40°C | 257 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 95 % |
| COP | 2.21 |
| Heating up time | 04:09 h:min |
| Standby power input | 73.0 W |
| Reference hot water temperature | 51.8 °C |
| Mixed water at 40°C | 259 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 103 % |
| COP | 2.43 |
| Heating up time | 03:18 h:min |
| Standby power input | 53.0 W |
| Reference hot water temperature | 53.2 °C |
| Mixed water at 40°C | 263 l |

Model: Buderus Logatherm WLW196i.2-4 ARB S+

Configure model

| | |
|-------------------------------------|--------------------------------------|
| Model name | Buderus Logatherm WLW196i.2-4 ARB S+ |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

General Data

| | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |
|--------------|-------------|

Heating

EN 14511-2

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 2.82 kW | 1.78 kW |
| El input | 0.56 kW | 0.69 kW |
| COP | 5.01 | 2.57 |

EN 14511-4

| Shutting off the heat transfer medium flow | passed |
|--|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 240 % | 163 % |
| Prated | 5.50 kW | 5.40 kW |
| SCOP | 6.07 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.48 kW | 5.40 kW |
| COP Tj = +2°C | 3.03 | 2.10 |
| Pdh Tj = +7°C | 3.81 kW | 3.56 kW |
| COP Tj = +7°C | 5.16 | 3.57 |
| Pdh Tj = 12°C | 1.71 kW | 2.44 kW |
| COP Tj = 12°C | 8.06 | 5.53 |
| Pdh Tj = Tbiv | 5.48 kW | 5.40 kW |
| COP Tj = Tbiv | 3.03 | 2.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.48 kW | 5.40 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|----------|----------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.03 | 2.10 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1211 kWh | 1736 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 118 % |
| Prated | 4.30 kW | 4.00 kW |
| SCOP | 4.27 | 3.03 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|---------|---------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 2.50 kW | 2.29 kW |
| COP Tj = -7°C | 3.64 | 2.52 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 1.49 kW | 1.80 kW |
| COP Tj = +2°C | 5.22 | 3.82 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.14 kW | 2.08 kW |
| COP Tj = +7°C | 6.44 | 4.68 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.24 kW | 2.48 kW |
| COP Tj = 12°C | 7.03 | 6.02 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 3.75 kW | 3.53 kW |
| COP Tj = Tbiv | 2.29 | 1.64 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.44 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.11 | 1.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| | | |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|----------|----------|
| PSB | 17 W | 17 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} | 2482 kWh | 3252 kWh |
| P _{dh} T _j = -15°C (if TOL<-20°C) | | |
| COP T _j = -15°C (if TOL<-20°C) | | |
| C _{dh} T _j = -15 °C | | |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 196 % | 133 % |
| Prated | 4.76 kW | 4.49 kW |
| SCOP | 4.98 | 3.40 |
| T _{biv} | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|----------|----------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.27 kW | 3.93 kW |
| COP Tj = -7°C | 3.11 | 2.11 |
| Pdh Tj = +2°C | 2.51 kW | 2.41 kW |
| COP Tj = +2°C | 4.96 | 3.36 |
| Pdh Tj = +7°C | 1.51 kW | 2.06 kW |
| COP Tj = +7°C | 6.40 | 4.41 |
| Pdh Tj = 12°C | 1.27 kW | 2.45 kW |
| COP Tj = 12°C | 7.53 | 5.76 |
| Pdh Tj = Tbiv | 4.76 kW | 4.49 kW |
| COP Tj = Tbiv | 2.68 | 1.82 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.76 kW | 4.49 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.68 | 1.82 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1975 kWh | 2724 kWh |

Model: Buderus Logatherm WLW196i.2-4 ARE S+

| Configure model | |
|-------------------------------------|--------------------------------------|
| Model name | Buderus Logatherm WLW196i.2-4 ARE S+ |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.82 kW | 1.78 kW |
| El input | 0.56 kW | 0.69 kW |
| COP | 5.01 | 2.57 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 240 % | 163 % |
| Prated | 5.50 kW | 5.40 kW |
| SCOP | 6.07 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.48 kW | 5.40 kW |
| COP Tj = +2°C | 3.03 | 2.10 |
| Pdh Tj = +7°C | 3.81 kW | 3.56 kW |
| COP Tj = +7°C | 5.16 | 3.57 |
| Pdh Tj = 12°C | 1.71 kW | 2.44 kW |
| COP Tj = 12°C | 8.06 | 5.53 |
| Pdh Tj = Tbiv | 5.48 kW | 5.40 kW |
| COP Tj = Tbiv | 3.03 | 2.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.48 kW | 5.40 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.03 | 2.10 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1211 kWh | 1736 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 118 % |
| Prated | 4.30 kW | 4.00 kW |
| SCOP | 4.27 | 3.03 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|---------|---------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 2.50 kW | 2.29 kW |
| COP Tj = -7°C | 3.64 | 2.52 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 1.49 kW | 1.80 kW |
| COP Tj = +2°C | 5.22 | 3.82 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.14 kW | 2.08 kW |
| COP Tj = +7°C | 6.44 | 4.68 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.24 kW | 2.48 kW |
| COP Tj = 12°C | 7.03 | 6.02 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 3.75 kW | 3.53 kW |
| COP Tj = Tbiv | 2.29 | 1.64 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.44 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.11 | 1.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| | | |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 4.30 kW | 4.00 kW |
| Annual energy consumption Q _{he} | 2482 kWh | 3252 kWh |
| P _{dh} T _j = -15°C (if TOL<-20°C) | 3.75 | 3.53 |
| COP T _j = -15°C (if TOL<-20°C) | 2.29 | 1.64 |
| C _{dh} T _j = -15 °C | | |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 196 % | 133 % |
| Prated | 4.76 kW | 4.49 kW |
| SCOP | 4.98 | 3.40 |
| T _{biv} | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.27 kW | 3.93 kW |
| COP Tj = -7°C | 3.11 | 2.11 |
| Pdh Tj = +2°C | 2.51 kW | 2.41 kW |
| COP Tj = +2°C | 4.96 | 3.36 |
| Pdh Tj = +7°C | 1.51 kW | 2.06 kW |
| COP Tj = +7°C | 6.40 | 4.41 |
| Pdh Tj = 12°C | 1.27 kW | 2.45 kW |
| COP Tj = 12°C | 7.53 | 5.76 |
| Pdh Tj = Tbiv | 4.76 kW | 4.49 kW |
| COP Tj = Tbiv | 2.68 | 1.82 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.76 kW | 4.49 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.68 | 1.82 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1975 kWh | 2724 kWh |

Model: Buderus Logatherm WLW196i.2-4 ART190 S+

| Configure model | |
|-------------------------------------|---|
| Model name | Buderus Logatherm WLW196i.2-4 ART190 S+ |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.82 kW | 1.78 kW |
| El input | 0.56 kW | 0.69 kW |
| COP | 5.01 | 2.57 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 240 % | 163 % |
| Prated | 5.50 kW | 5.40 kW |
| SCOP | 6.07 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.48 kW | 5.40 kW |
| COP Tj = +2°C | 3.03 | 2.10 |
| Pdh Tj = +7°C | 3.81 kW | 3.56 kW |
| COP Tj = +7°C | 5.16 | 3.57 |
| Pdh Tj = 12°C | 1.71 kW | 2.44 kW |
| COP Tj = 12°C | 8.06 | 5.53 |
| Pdh Tj = Tbiv | 5.48 kW | 5.40 kW |
| COP Tj = Tbiv | 3.03 | 2.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.48 kW | 5.40 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.03 | 2.10 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1211 kWh | 1736 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 118 % |
| Prated | 4.30 kW | 4.00 kW |
| SCOP | 4.27 | 3.03 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|---------|---------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 2.50 kW | 2.29 kW |
| COP Tj = -7°C | 3.64 | 2.52 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 1.49 kW | 1.80 kW |
| COP Tj = +2°C | 5.22 | 3.82 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.14 kW | 2.08 kW |
| COP Tj = +7°C | 6.44 | 4.68 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.24 kW | 2.48 kW |
| COP Tj = 12°C | 7.03 | 6.02 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 3.75 kW | 3.53 kW |
| COP Tj = Tbiv | 2.29 | 1.64 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.44 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.11 | 1.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| | | |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 4.30 kW | 4.00 kW |
| Annual energy consumption Q _{he} | 2482 kWh | 3252 kWh |
| P _{dh} T _j = -15°C (if TOL<-20°C) | 3.75 | 1.64 |
| COP T _j = -15°C (if TOL<-20°C) | 2.29 | 1.64 |
| C _{dh} T _j = -15 °C | | |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 196 % | 133 % |
| Prated | 4.76 kW | 4.49 kW |
| SCOP | 4.98 | 3.40 |
| T _{biv} | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.27 kW | 3.93 kW |
| COP Tj = -7°C | 3.11 | 2.11 |
| Pdh Tj = +2°C | 2.51 kW | 2.41 kW |
| COP Tj = +2°C | 4.96 | 3.36 |
| Pdh Tj = +7°C | 1.51 kW | 2.06 kW |
| COP Tj = +7°C | 6.40 | 4.41 |
| Pdh Tj = 12°C | 1.27 kW | 2.45 kW |
| COP Tj = 12°C | 7.53 | 5.76 |
| Pdh Tj = Tbiv | 4.76 kW | 4.49 kW |
| COP Tj = Tbiv | 2.68 | 1.82 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.76 kW | 4.49 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.68 | 1.82 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1975 kWh | 2724 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 119 % |
| COP | 2.80 |
| Heating up time | 02:49 h:min |
| Standby power input | 47.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 261 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 84 % |
| COP | 1.96 |
| Heating up time | 04:11 h:min |
| Standby power input | 66.0 W |
| Reference hot water temperature | 53.0 °C |
| Mixed water at 40°C | 279 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 100 % |
| COP | 2.36 |
| Heating up time | 03:34 h:min |
| Standby power input | 52.0 W |
| Reference hot water temperature | 53.5 °C |
| Mixed water at 40°C | 271 l |

Model: Buderus Logatherm WLW196i.2-4 ARTS185 S+

| Configure model | |
|-------------------------------------|--|
| Model name | Buderus Logatherm WLW196i.2-4 ARTS185 S+ |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.82 kW | 1.78 kW |
| El input | 0.56 kW | 0.69 kW |
| COP | 5.01 | 2.57 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 240 % | 163 % |
| Prated | 5.50 kW | 5.40 kW |
| SCOP | 6.07 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.48 kW | 5.40 kW |
| COP Tj = +2°C | 3.03 | 2.10 |
| Pdh Tj = +7°C | 3.81 kW | 3.56 kW |
| COP Tj = +7°C | 5.16 | 3.57 |
| Pdh Tj = 12°C | 1.71 kW | 2.44 kW |
| COP Tj = 12°C | 8.06 | 5.53 |
| Pdh Tj = Tbiv | 5.48 kW | 5.40 kW |
| COP Tj = Tbiv | 3.03 | 2.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.48 kW | 5.40 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.03 | 2.10 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1211 kWh | 1736 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 168 % | 118 % |
| Prated | 4.30 kW | 4.00 kW |
| SCOP | 4.27 | 3.03 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|---------|---------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 2.50 kW | 2.29 kW |
| COP Tj = -7°C | 3.64 | 2.52 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 1.49 kW | 1.80 kW |
| COP Tj = +2°C | 5.22 | 3.82 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.14 kW | 2.08 kW |
| COP Tj = +7°C | 6.44 | 4.68 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.24 kW | 2.48 kW |
| COP Tj = 12°C | 7.03 | 6.02 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 3.75 kW | 3.53 kW |
| COP Tj = Tbiv | 2.29 | 1.64 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.44 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.11 | 1.56 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| | | |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 4.30 kW | 4.00 kW |
| Annual energy consumption Q _{he} | 2482 kWh | 3252 kWh |
| P _{dh} T _j = -15°C (if TOL<-20°C) | 3.75 | 1.64 |
| COP T _j = -15°C (if TOL<-20°C) | 2.29 | 1.64 |
| C _{dh} T _j = -15 °C | | |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 25 dB(A) | 25 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 196 % | 133 % |
| Prated | 4.76 kW | 4.49 kW |
| SCOP | 4.98 | 3.40 |
| T _{biv} | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.27 kW | 3.93 kW |
| COP Tj = -7°C | 3.11 | 2.11 |
| Pdh Tj = +2°C | 2.51 kW | 2.41 kW |
| COP Tj = +2°C | 4.96 | 3.36 |
| Pdh Tj = +7°C | 1.51 kW | 2.06 kW |
| COP Tj = +7°C | 6.40 | 4.41 |
| Pdh Tj = 12°C | 1.27 kW | 2.45 kW |
| COP Tj = 12°C | 7.53 | 5.76 |
| Pdh Tj = Tbiv | 4.76 kW | 4.49 kW |
| COP Tj = Tbiv | 2.68 | 1.82 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.76 kW | 4.49 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.68 | 1.82 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1975 kWh | 2724 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 110 % |
| COP | 2.58 |
| Heating up time | 02:45 h:min |
| Standby power input | 49.0 W |
| Reference hot water temperature | 51.7 °C |
| Mixed water at 40°C | 247 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 80 % |
| COP | 1.88 |
| Heating up time | 04:05 h:min |
| Standby power input | 67.0 W |
| Reference hot water temperature | 51.7 °C |
| Mixed water at 40°C | 259 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 98 % |
| COP | 2.31 |
| Heating up time | 03:12 h:min |
| Standby power input | 54.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 261 l |

Model: Buderus Hybrid-Set WLW196i-6 A H

Configure model

| | |
|-------------------------------------|----------------------------------|
| Model name | Buderus Hybrid-Set WLW196i-6 A H |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

General Data

| | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |
|--------------|-------------|

Heating

EN 14511-2

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 9.03 kW | 7.41 kW |
| El input | 2.4 kW | 2.82 kW |
| COP | 3.76 | 2.62 |

EN 14511-4

| Shutting off the heat transfer medium flow | passed |
|--|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 24 dB(A) | 24 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 210 % | 164 % |
| Prated | 6.54 kW | 6.10 kW |
| SCOP | 5.31 | 4.16 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.54 kW | 6.1 kW |
| COP Tj = +2°C | 3.04 | 2.33 |
| Cdh Tj = +2 °C | 1.000 | 1.000 |
| Pdh Tj = +7°C | 4.02 kW | 4.07 kW |
| COP Tj = +7°C | 5.03 | 3.47 |
| Cdh Tj = +7 °C | 1.000 | 1.000 |
| Pdh Tj = 12°C | 1.77 kW | 2.49 kW |
| COP Tj = 12°C | 6.36 | 5.71 |
| Cdh Tj = +12 °C | 1.000 | 0.950 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|----------|----------|
| Pdh Tj = Tbiv | 6.54 kW | 6.1 kW |
| COP Tj = Tbiv | 3.04 | 2.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.54 kW | 6.1 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.04 | 2.33 |
| WTOL | 62 °C | 62 °C |
| Poff | 7 W | 7 W |
| PTO | 6 W | 6 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Gas | Gas |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1645 kWh | 1957 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 24 dB(A) | 24 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| | | |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|---------|---------|
| η_s | 152 % | 122 % |
| Prated | 5.35 kW | 5.29 kW |
| SCOP | 3.87 | 3.13 |
| Tbiv | -17 °C | -15 °C |
| TOL | -20 °C | -19 °C |
| Pdh Tj = -7°C | 3.19 kW | 3.21 kW |
| COP Tj = -7°C | 3.32 | 2.52 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| Pdh Tj = +2°C | 1.18 kW | 1.78 kW |
| COP Tj = +2°C | 4.59 | 3.71 |
| Cdh Tj = +2 °C | 1.000 | 1.000 |
| Pdh Tj = +7°C | 1.18 kW | 2.13 kW |
| COP Tj = +7°C | 5.00 | 5.01 |
| Cdh Tj = +7 °C | 1.000 | 0.950 |
| Pdh Tj = 12°C | 1.36 kW | 2.58 kW |
| COP Tj = 12°C | 6.19 | 6.89 |
| Cdh Tj = +12 °C | 0.900 | 0.940 |
| Pdh Tj = Tbiv | 4.39 kW | 4.32 kW |
| COP Tj = Tbiv | 2.31 | 1.82 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.07 kW | 1.77 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.16 | 1.54 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|----------|----------|
| WTOL | 62 °C | 62 °C |
| Poff | 7 W | 7 W |
| PTO | 6 W | 6 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Gas | Gas |
| Supplementary Heater: PSUP | 1.28 kW | 3.52 kW |
| Annual energy consumption Q _{he} | 3405 kWh | 4162 kWh |
| P _{dh} T _j = -15°C (if TOL<-20°C) | | |
| COP T _j = -15°C (if TOL<-20°C) | | |
| C _{dh} T _j = -15 °C | | |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 24 dB(A) | 24 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 169 % | 133 % |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|---------|---------|
| Prated | 5.39 kW | 6.25 kW |
| SCOP | 4.31 | 3.4 |
| Tbiv | -10 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.55 kW | 5.53 kW |
| COP Tj = -7°C | 2.96 | 2.02 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| Pdh Tj = +2°C | 2.63 kW | 3.53 kW |
| COP Tj = +2°C | 4.34 | 3.31 |
| Cdh Tj = +2 °C | 1.000 | 1.000 |
| Pdh Tj = +7°C | 1.75 kW | 2.13 kW |
| COP Tj = +7°C | 5.24 | 4.55 |
| Cdh Tj = +7 °C | 1.000 | 1.000 |
| Pdh Tj = 12°C | 1.36 kW | 2.54 kW |
| COP Tj = 12°C | 6.25 | 6.41 |
| Cdh Tj = +12 °C | 0.900 | 0.940 |
| Pdh Tj = Tbiv | 5.39 kW | 5.53 kW |
| COP Tj = Tbiv | 2.56 | 2.02 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.39 kW | 4.61 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.56 | 1.93 |
| WTOL | 62 °C | 62 °C |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Poff | 7 W | 7 W |
| PTO | 6 W | 6 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Gas | Gas |
| Supplementary Heater: PSUP | 0 kW | 1.6 kW |
| Annual energy consumption Qhe | 2586 kWh | 3800 kWh |

Model: Buderus Logatherm WLW196i-6 IRTP120

| Configure model | |
|-------------------------------------|-------------------------------------|
| Model name | Buderus Logatherm WLW196i-6 IRTP120 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.29 kW | 2.34 kW |
| El input | 0.49 kW | 0.90 kW |
| COP | 4.69 | 2.59 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 237 % | 156 % |
| Prated | 5.77 kW | 5.08 kW |
| SCOP | 6.00 | 3.98 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.77 kW | 5.08 kW |
| COP Tj = +2°C | 2.83 | 2.06 |
| Pdh Tj = +7°C | 3.39 kW | 3.55 kW |
| COP Tj = +7°C | 5.39 | 3.53 |
| Pdh Tj = 12°C | 1.79 kW | 2.42 kW |
| COP Tj = 12°C | 7.60 | 5.29 |
| Pdh Tj = Tbiv | 5.77 kW | 5.08 kW |
| COP Tj = Tbiv | 2.83 | 2.06 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.77 kW | 5.08 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.83 | 2.06 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 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 | 1285 kWh | 1704 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 158 % | 122 % |
| Prated | 5.27 kW | 4.82 kW |
| SCOP | 4.03 | 3.14 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -16 °C | -16 °C |
| TOL | -20 °C | -17 °C |
| Pdh Tj = -7°C | 3.20 kW | 2.91 kW |
| COP Tj = -7°C | 3.07 | 2.66 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.33 | 4.05 |
| Pdh Tj = +7°C | 1.14 kW | 2.15 kW |
| COP Tj = +7°C | 6.53 | 4.79 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 7.20 | 6.16 |
| Pdh Tj = Tbiv | 4.45 kW | 3.93 kW |
| COP Tj = Tbiv | 2.38 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.50 kW | 3.09 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.03 | 1.62 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.27 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 3222 kWh | 3787 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 3.89 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.38 | 1.94 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 173 % | 134 % |
| P_{rated} | 5.17 kW | 4.20 kW |
| SCOP | 4.41 | 3.44 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.67 kW | 3.86 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 2.87 | 2.21 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.81 kW | 2.38 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 5.33 | 3.56 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.40 | 4.26 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 7.13 | 5.35 |
| Pdh Tj = Tbiv | 5.18 kW | 4.20 kW |
| COP Tj = Tbiv | 2.58 | 1.88 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.18 kW | 4.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.58 | 1.88 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 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 | 2421 kWh | 2525 kWh |

Model: Buderus Logatherm WLW196i-6 ARTP120

| Configure model | |
|-------------------------------------|-------------------------------------|
| Model name | Buderus Logatherm WLW196i-6 ARTP120 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.28 kW | 2.40 kW |
| El input | 0.46 kW | 0.90 kW |
| COP | 4.96 | 2.68 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 49 dB(A) | 49 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 241 % | 167 % |
| Prated | 6.27 kW | 5.60 kW |
| SCOP | 6.11 | 4.25 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.27 kW | 5.60 kW |
| COP Tj = +2°C | 2.95 | 2.16 |
| Pdh Tj = +7°C | 4.09 kW | 3.77 kW |
| COP Tj = +7°C | 5.41 | 3.76 |
| Pdh Tj = 12°C | 1.79 kW | 2.54 kW |
| COP Tj = 12°C | 7.85 | 5.64 |
| Pdh Tj = Tbiv | 6.27 kW | 5.60 kW |
| COP Tj = Tbiv | 2.95 | 2.16 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.27 kW | 5.60 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.95 | 2.16 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1371 kWh | 1762 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 49 dB(A) | 49 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 167 % | 125 % |
| Prated | 5.11 kW | 4.82 kW |
| SCOP | 4.26 | 3.20 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -19 °C |
| Pdh Tj = -7°C | 3.20 kW | 3.01 kW |
| COP Tj = -7°C | 3.49 | 2.66 |
| Pdh Tj = +2°C | 1.80 kW | 1.91 kW |
| COP Tj = +2°C | 5.32 | 4.05 |
| Pdh Tj = +7°C | 1.19 kW | 2.15 kW |
| COP Tj = +7°C | 6.54 | 4.78 |
| Pdh Tj = 12°C | 1.31 kW | 2.61 kW |
| COP Tj = 12°C | 7.19 | 6.16 |
| Pdh Tj = Tbiv | 4.45 kW | 4.20 kW |
| COP Tj = Tbiv | 2.38 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.07 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 1.62 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.11 kW | 4.82 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 2956 kWh | 3715 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 4.15 | 3.89 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.62 | 1.94 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 49 dB(A) | 49 dB(A) |
| Sound power level outdoor | 47 dB(A) | 47 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 189 % | 137 % |
| P_{rated} | 5.43 kW | 4.56 kW |
| SCOP | 4.81 | 3.50 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.90 kW | 4.26 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 2.99 | 2.21 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.92 kW | 2.57 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 4.74 | 3.55 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.84 kW | 2.11 kW |
| COP Tj = +7°C | 6.41 | 4.47 |
| Pdh Tj = 12°C | 1.33 kW | 2.56 kW |
| COP Tj = 12°C | 7.37 | 5.82 |
| Pdh Tj = Tbiv | 5.43 kW | 4.56 kW |
| COP Tj = Tbiv | 2.58 | 1.87 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.43 kW | 4.56 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.58 | 1.87 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 4 W | 4 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2335 kWh | 2689 kWh |

Model: Buderus Logatherm WLW196i.2-4 ARTP120 S+

| Configure model | |
|-------------------------------------|--|
| Model name | Buderus Logatherm WLW196i.2-4 ARTP120 S+ |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 2.82 kW | 1.78 kW |
| El input | 0.59 kW | 0.71 kW |
| COP | 4.76 | 2.49 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Warmer Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 49 dB(A) | 49 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 223 % | 158 % |
| Prated | 5.50 kW | 5.40 kW |
| SCOP | 5.65 | 4.01 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.48 kW | 5.40 kW |
| COP Tj = +2°C | 2.93 | 2.07 |
| Pdh Tj = +7°C | 3.81 kW | 3.56 kW |
| COP Tj = +7°C | 4.91 | 3.48 |
| Pdh Tj = 12°C | 1.71 kW | 2.44 kW |
| COP Tj = 12°C | 7.26 | 5.26 |
| Pdh Tj = Tbiv | 5.48 kW | 5.40 kW |
| COP Tj = Tbiv | 2.93 | 2.07 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.48 kW | 5.40 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.93 | 2.07 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 1301 kWh | 1797 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 49 dB(A) | 49 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 157 % | 113 % |
| Prated | 4.30 kW | 4.00 kW |
| SCOP | 4.00 | 2.90 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Tbiv | -17 °C | -17 °C |
| TOL | -20 °C | -18 °C |
| Pdh Tj = -7°C | 2.50 kW | 2.29 kW |
| COP Tj = -7°C | 3.50 | 2.46 |
| Pdh Tj = +2°C | 1.49 kW | 1.80 kW |
| COP Tj = +2°C | 4.84 | 3.65 |
| Pdh Tj = +7°C | 1.14 kW | 2.08 kW |
| COP Tj = +7°C | 5.73 | 4.46 |
| Pdh Tj = 12°C | 1.24 kW | 2.48 kW |
| COP Tj = 12°C | 6.26 | 5.71 |
| Pdh Tj = Tbiv | 3.75 kW | 3.53 kW |
| COP Tj = Tbiv | 2.24 | 1.62 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.44 kW | 3.39 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.07 | 1.54 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 4.30 kW | 4.00 kW |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|--|----------|----------|
| Annual energy consumption Q_{he} | 2650 kWh | 3405 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 3.75 | 3.53 |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$) | 2.24 | 1.62 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 49 dB(A) | 49 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

| EN 14825 | | |
|-----------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 183 % | 127 % |
| Prated | 4.76 kW | 4.49 kW |
| SCOP | 4.66 | 3.26 |
| T_{biv} | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}\text{C}$ | 4.27 kW | 3.94 kW |
| $COP T_j = -7^{\circ}\text{C}$ | 3.02 | 2.08 |
| $P_{dh} T_j = +2^{\circ}\text{C}$ | 2.51 kW | 2.41 kW |
| $COP T_j = +2^{\circ}\text{C}$ | 4.70 | 3.26 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 1.51 kW | 2.06 kW |
| COP Tj = +7°C | 5.85 | 4.21 |
| Pdh Tj = 12°C | 1.27 kW | 2.45 kW |
| COP Tj = 12°C | 6.67 | 5.47 |
| Pdh Tj = Tbiv | 4.76 kW | 4.49 kW |
| COP Tj = Tbiv | 2.62 | 1.80 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.76 kW | 4.49 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.62 | 1.80 |
| WTOL | 60 °C | 60 °C |
| Poff | 17 W | 17 W |
| PTO | 22 W | 22 W |
| PSB | 17 W | 17 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 | 2112 kWh | 2843 kWh |