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| | | | | |
|---------------------|---|--|----------|-----------------|
| Summary of | NIMBUS 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X | | Reg. No. | ICIM-PDC-000001 |
| Certificate Holder | | | | |
| Name | Ariston Thermo Group | | | |
| Address | Viale Aristide Merloni 45 | | Zip | I-60044 |
| City | Fabriano (AN) | | Country | Italy |
| Certification Body | ICIM S.p.A. | | | |
| Subtype title | NIMBUS 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X | | | |
| Heat Pump Type | Outdoor Air/Water | | | |
| Refrigerant | R410A | | | |
| Mass of Refrigerant | 2.3 kg | | | |
| Certification Date | 19.12.2017 | | | |

Model: AEROTOP SPLIT 05M-RX

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | AEROTOP SPLIT 05M-RX |
| 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| P _{designh} | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P _{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| P _{dh} T _j = -7°C | 5.12 kW | 5.35 kW |
| COP T _j = -7°C | 3.19 | 2.32 |
| P _{dh} T _j = +2°C | 3.18 kW | 3.55 kW |
| COP T _j = +2°C | 4.63 | 3.43 |
| P _{dh} T _j = +7°C | 2.03 kW | 2.14 kW |
| COP T _j = +7°C | 6.09 | 4.50 |
| P _{dh} T _j = 12°C | 1.61 kW | 1.58 kW |
| COP T _j = 12°C | 8.52 | 6.33 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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

| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η _s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Model: ARIANEXT PLUS 50 S LINK

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | ARIANEXT PLUS 50 S LINK |
| 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

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

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| P _{designh} | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P _{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| P _{dh} T _j = -7°C | 5.12 kW | 5.35 kW |
| COP T _j = -7°C | 3.19 | 2.32 |
| P _{dh} T _j = +2°C | 3.18 kW | 3.55 kW |
| COP T _j = +2°C | 4.63 | 3.43 |
| P _{dh} T _j = +7°C | 2.03 kW | 2.14 kW |
| COP T _j = +7°C | 6.09 | 4.50 |
| P _{dh} T _j = 12°C | 1.61 kW | 1.58 kW |
| COP T _j = 12°C | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η _s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Model: ARIANEXT PLUS 50 S

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | ARIANEXT PLUS 50 S |
| 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| P _{designh} | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P _{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| P _{dh} T _j = -7°C | 5.12 kW | 5.35 kW |
| COP T _j = -7°C | 3.19 | 2.32 |
| P _{dh} T _j = +2°C | 3.18 kW | 3.55 kW |
| COP T _j = +2°C | 4.63 | 3.43 |
| P _{dh} T _j = +7°C | 2.03 kW | 2.14 kW |
| COP T _j = +7°C | 6.09 | 4.50 |
| P _{dh} T _j = 12°C | 1.61 kW | 1.58 kW |
| COP T _j = 12°C | 8.52 | 6.33 |

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|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
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| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η _s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
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| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
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| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Model: NIMBUS PLUS 50 S NET

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | NIMBUS PLUS 50 S NET |
| 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| P _{designh} | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P _{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| P _{dh} T _j = -7°C | 5.12 kW | 5.35 kW |
| COP T _j = -7°C | 3.19 | 2.32 |
| P _{dh} T _j = +2°C | 3.18 kW | 3.55 kW |
| COP T _j = +2°C | 4.63 | 3.43 |
| P _{dh} T _j = +7°C | 2.03 kW | 2.14 kW |
| COP T _j = +7°C | 6.09 | 4.50 |
| P _{dh} T _j = 12°C | 1.61 kW | 1.58 kW |
| COP T _j = 12°C | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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

| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η_s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Model: AEROTOP SPLIT 05M-CRX

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | AEROTOP SPLIT 05M-CRX |
| Application | Heating + DHW + low 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------------------|-----------------|--------------------|
| $P_{designh}$ | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P_{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T_{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}C$ | 5.12 kW | 5.35 kW |
| $COP T_j = -7^{\circ}C$ | 3.19 | 2.32 |
| $P_{dh} T_j = +2^{\circ}C$ | 3.18 kW | 3.55 kW |
| $COP T_j = +2^{\circ}C$ | 4.63 | 3.43 |
| $P_{dh} T_j = +7^{\circ}C$ | 2.03 kW | 2.14 kW |
| $COP T_j = +7^{\circ}C$ | 6.09 | 4.50 |
| $P_{dh} T_j = 12^{\circ}C$ | 1.61 kW | 1.58 kW |
| $COP T_j = 12^{\circ}C$ | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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

| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η _s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 107 % |
| COP | 2.60 |
| Heating up time | 01:48 h:min |
| Standby power input | 44.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 241 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 133 % |
| COP | 3.20 |
| Heating up time | 02:46 h:min |
| Standby power input | 49.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 242 l |

Colder Climate

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

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 95 % |
| COP | 2.30 |
| Heating up time | 02:55 h:min |
| Standby power input | 42.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 240 l |

Model: ARIANEXT COMPACT 50 S LINK

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | ARIANEXT COMPACT 50 S LINK |
| Application | Heating + DHW + low 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------------------|-----------------|--------------------|
| $P_{designh}$ | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P_{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T_{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}C$ | 5.12 kW | 5.35 kW |
| $COP T_j = -7^{\circ}C$ | 3.19 | 2.32 |
| $P_{dh} T_j = +2^{\circ}C$ | 3.18 kW | 3.55 kW |
| $COP T_j = +2^{\circ}C$ | 4.63 | 3.43 |
| $P_{dh} T_j = +7^{\circ}C$ | 2.03 kW | 2.14 kW |
| $COP T_j = +7^{\circ}C$ | 6.09 | 4.50 |
| $P_{dh} T_j = 12^{\circ}C$ | 1.61 kW | 1.58 kW |
| $COP T_j = 12^{\circ}C$ | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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

| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η _s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 107 % |
| COP | 2.60 |
| Heating up time | 01:48 h:min |
| Standby power input | 44.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 241 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 133 % |
| COP | 3.20 |
| Heating up time | 02:46 h:min |
| Standby power input | 49.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 242 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 95 % |
| COP | 2.30 |
| Heating up time | 02:55 h:min |
| Standby power input | 42.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 240 l |

Model: ARIANEXT FLEX 50 S LINK

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | ARIANEXT FLEX 50 S LINK |
| Application | Heating + DHW + low 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| P _{designh} | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P _{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| P _{dh} T _j = -7°C | 5.12 kW | 5.35 kW |
| COP T _j = -7°C | 3.19 | 2.32 |
| P _{dh} T _j = +2°C | 3.18 kW | 3.55 kW |
| COP T _j = +2°C | 4.63 | 3.43 |
| P _{dh} T _j = +7°C | 2.03 kW | 2.14 kW |
| COP T _j = +7°C | 6.09 | 4.50 |
| P _{dh} T _j = 12°C | 1.61 kW | 1.58 kW |
| COP T _j = 12°C | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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

| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η _s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 107 % |
| COP | 2.60 |
| Heating up time | 01:48 h:min |
| Standby power input | 44.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 241 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 133 % |
| COP | 3.20 |
| Heating up time | 02:46 h:min |
| Standby power input | 49.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 242 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 95 % |
| COP | 2.30 |
| Heating up time | 02:55 h:min |
| Standby power input | 42.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 240 l |

Model: NIMBUS COMPACT 50 S NET

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | NIMBUS COMPACT 50 S NET |
| Application | Heating + DHW + low 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| P _{designh} | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P _{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| P _{dh} T _j = -7°C | 5.12 kW | 5.35 kW |
| COP T _j = -7°C | 3.19 | 2.32 |
| P _{dh} T _j = +2°C | 3.18 kW | 3.55 kW |
| COP T _j = +2°C | 4.63 | 3.43 |
| P _{dh} T _j = +7°C | 2.03 kW | 2.14 kW |
| COP T _j = +7°C | 6.09 | 4.50 |
| P _{dh} T _j = 12°C | 1.61 kW | 1.58 kW |
| COP T _j = 12°C | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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

| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η_s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 107 % |
| COP | 2.60 |
| Heating up time | 01:48 h:min |
| Standby power input | 44.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 241 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 133 % |
| COP | 3.20 |
| Heating up time | 02:46 h:min |
| Standby power input | 49.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 242 l |

Colder Climate

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

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 95 % |
| COP | 2.30 |
| Heating up time | 02:55 h:min |
| Standby power input | 42.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 240 l |

Model: NIMBUS FLEX 50 S NET

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | NIMBUS FLEX 50 S NET |
| Application | Heating + DHW + low 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 | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------------------|-----------------|--------------------|
| $P_{designh}$ | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P_{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T_{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}C$ | 5.12 kW | 5.35 kW |
| $COP T_j = -7^{\circ}C$ | 3.19 | 2.32 |
| $P_{dh} T_j = +2^{\circ}C$ | 3.18 kW | 3.55 kW |
| $COP T_j = +2^{\circ}C$ | 4.63 | 3.43 |
| $P_{dh} T_j = +7^{\circ}C$ | 2.03 kW | 2.14 kW |
| $COP T_j = +7^{\circ}C$ | 6.09 | 4.50 |
| $P_{dh} T_j = 12^{\circ}C$ | 1.61 kW | 1.58 kW |
| $COP T_j = 12^{\circ}C$ | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Warmer Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

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

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

| | | |
|---|---------|---------|
| P _{designh} | 3.48 kW | 2.99 kW |
| η_s | 243 % | 154 % |
| P _{rated} | 3.48 kW | 2.99 kW |
| SCOP | 6.16 | 3.93 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2°C | 3.48 kW | 2.99 kW |
| COP T _j = +2°C | 4.08 | 2.45 |
| P _{dh} T _j = +7°C | 2.24 kW | 1.96 kW |
| COP T _j = +7°C | 5.65 | 3.21 |
| P _{dh} T _j = 12°C | 1.59 kW | 1.58 kW |
| COP T _j = 12°C | 7.80 | 5.69 |
| P _{dh} T _j = T _{biv} | 3.48 kW | 2.99 kW |
| COP T _j = T _{biv} | 4.08 | 2.45 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 3.48 kW | 2.99 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.08 | 2.45 |
| C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |

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

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 754 kWh | 1018 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| P _{designh} | 7.98 kW | 8.55 kW |
| η_s | 149 % | 118 % |
| P _{rated} | 7.98 kW | 8.55 kW |
| SCOP | 3.81 | 3.02 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 4.83 kW | 5.17 kW |

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

| | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.46 | 2.76 |
| Pdh Tj = +2°C | 2.92 kW | 3.27 kW |
| COP Tj = +2°C | 5.02 | 3.82 |
| Pdh Tj = +7°C | 1.94 kW | 2.01 kW |
| COP Tj = +7°C | 6.89 | 4.93 |
| Pdh Tj = 12°C | 1.61 kW | 1.60 kW |
| COP Tj = 12°C | 8.52 | 6.87 |
| Pdh Tj = Tbiv | 4.83 kW | 5.17 kW |
| COP Tj = Tbiv | 3.46 | 2.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.18 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.54 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.86 kW | 4.00 kW |
| Annual energy consumption Qhe | 5160 kWh | 6984 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 107 % |
| COP | 2.60 |
| Heating up time | 01:48 h:min |
| Standby power input | 44.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 241 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 133 % |
| COP | 3.20 |
| Heating up time | 02:46 h:min |
| Standby power input | 49.0 W |
| Reference hot water temperature | 53.1 °C |
| Mixed water at 40°C | 242 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 95 % |
| COP | 2.30 |
| Heating up time | 02:55 h:min |
| Standby power input | 42.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 240 l |

Model: ARIANEXT COMPACT 50 S

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | ARIANEXT COMPACT 50 S |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------------------|-----------------|--------------------|
| $P_{designh}$ | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P_{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T_{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| $P_{dh} T_j = -7^{\circ}C$ | 5.12 kW | 5.35 kW |
| $COP T_j = -7^{\circ}C$ | 3.19 | 2.32 |
| $P_{dh} T_j = +2^{\circ}C$ | 3.18 kW | 3.55 kW |
| $COP T_j = +2^{\circ}C$ | 4.63 | 3.43 |
| $P_{dh} T_j = +7^{\circ}C$ | 2.03 kW | 2.14 kW |
| $COP T_j = +7^{\circ}C$ | 6.09 | 4.50 |
| $P_{dh} T_j = 12^{\circ}C$ | 1.61 kW | 1.58 kW |
| $COP T_j = 12^{\circ}C$ | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Domestic Hot Water (DHW)

Average Climate

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

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 131 % |
| COP | 3.10 |
| Heating up time | 01:34 h:min |
| Standby power input | 38.0 W |
| Reference hot water temperature | 53.0 °C |
| Mixed water at 40°C | 250 l |

Model: ARIANEXT FLEX 50 S

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | ARIANEXT FLEX 50 S |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 4.40 kW | 3.80 kW |
| El input | 0.88 kW | 1.32 kW |
| COP | 5.02 | 2.88 |

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| P _{designh} | 5.79 kW | 6.05 kW |
| η_s | 189 % | 138 % |
| P _{rated} | 5.79 kW | 6.05 kW |
| SCOP | 4.79 | 3.52 |
| T _{biv} | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| P _{dh} T _j = -7°C | 5.12 kW | 5.35 kW |
| COP T _j = -7°C | 3.19 | 2.32 |
| P _{dh} T _j = +2°C | 3.18 kW | 3.55 kW |
| COP T _j = +2°C | 4.63 | 3.43 |
| P _{dh} T _j = +7°C | 2.03 kW | 2.14 kW |
| COP T _j = +7°C | 6.09 | 4.50 |
| P _{dh} T _j = 12°C | 1.61 kW | 1.58 kW |
| COP T _j = 12°C | 8.52 | 6.33 |

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

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.12 kW | 5.35 kW |
| COP Tj = Tbiv | 3.19 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.12 kW | 4.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 2.04 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 11 W | 11 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.55 kW | 1.27 kW |
| Annual energy consumption Qhe | 2497 kWh | 3545 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 131 % |
| COP | 3.10 |
| Heating up time | 01:34 h:min |
| Standby power input | 38.0 W |
| Reference hot water temperature | 53.0 °C |
| Mixed water at 40°C | 250 l |