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Login

| Summary of | NIMBUS 110 S - ARIANEXT 110 S - AEROTOP SPLIT 11 | Reg. No. | ICIM-PDC-000001 | | |
|---------------------|--|----------|-----------------|--|--|
| Certificate Holder | 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 110 S - ARIANEXT 110 S - AEROTOP SPLIT 11 | | | | |
| Heat Pump Type | Outdoor Air/Water | | | | |
| Refrigerant | R410A | | | | |
| Mass of Refrigerant | nt 4.3 kg | | | | |
| Certification Date | 19.12.2017 | | | | |



Model: AEROTOP SPLIT 11M-R

| Configure model | | | |
|-------------------------------------|---------------------------------|--|--|
| Model name | AEROTOP SPLIT 11M-R | | |
| 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 | 3x230V 50Hz | |

Heating

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| COP | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | | |
|---------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Pdesignh | 12.29 kW | 11.54 kW | |
| η_{s} | 187 % | 135 % | |
| Prated | 12.29 kW | 11.54 kW | |
| SCOP | 4.74 | 3.46 | |
| Tbiv | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW | |
| COP Tj = -7°C | 3.21 | 2.32 | |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW | |
| COP Tj = +2°C | 4.52 | 3.32 | |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW | |
| COP Tj = +7°C | 6.12 | 4.38 | |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW | |
| COP Tj = 12°C | 9.15 | 6.59 | |



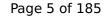


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

| EN 12102-1 | | | | |
|---------------------------|-----------------|--------------------|--|--|
| | Low temperature | Medium temperature | | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | | |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COP Tj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = +7°C | 5.36 kW | 4.90 kW |
| COP Tj = +7°C | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



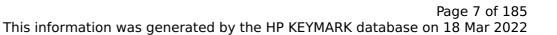


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| This information was genera | ted by the HE KLIMAI | N database on 10 Mai 202. |
|---|----------------------|---------------------------|
| COP Tj = -7°C | 3.45 | 2.71 |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = +7°C | 4.37 kW | 4.03 kW |
| $COPTj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| t | ÷ | |



Model: ARIANEXT PLUS 110 S-T LINK

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | ARIANEXT PLUS 110 S-T 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 | 3x230V 50Hz | |

Heating

| EN 14511-2 | | | |
|------------------------------------|----------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

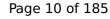
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



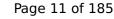


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| PTO | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

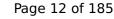
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

| EN 1482 | 25 | |
|---------|-----------------|--------------------|
| | Low temperature | Medium temperature |





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
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| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |
| | · | |



| | ted by the fit RETINA | tik database on 10 mai 2022 |
|---|-----------------------|-----------------------------|
| COP Tj = -7°C | 3.45 | 2.71 |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| t | | |



Model: ARIANEXT PLUS 110 S-T

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | ARIANEXT PLUS 110 S-T | |
| 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 | 3x230V 50Hz | |

Heating

| EN 14511-2 | | | |
|------------------------------------|----------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

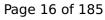
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
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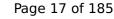


| Pdh Tj = Tbiv 10.87 kW 10.21 kW COP Tj = Tbiv 3.21 2.32 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 12.08 kW 10.36 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.80 1.82 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW Annual energy consumption Qhe 5358 kWh 6891 kWh | | | |
|---|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
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| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | WTOL | 60 °C | 60 °C |
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| PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | РТО | 19 W | 19 W |
| Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | PSB | 18 W | 18 W |
| Supplementary Heater: PSUP 3.08 kW 1.18 kW | PCK | 18 W | 18 W |
| | Supplementary Heater: Type of energy input | Electricity | Electricity |
| Annual energy consumption Qhe 5358 kWh 6891 kWh | Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
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Warmer Climate

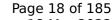
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

| EN 1482 | 25 | |
|---------|-----------------|--------------------|
| | Low temperature | Medium temperature |





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
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| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
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| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |



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| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
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| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| | | |



Model: NIMBUS PLUS 110 S-T NET

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | NIMBUS PLUS 110 S-T 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 3x230V 50Hz | | |

EN 14511-2

Heating

COP

5.15

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |

3.17

| 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 | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



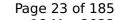


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

| EN 12102-1 | | | |
|------------------------------------|----------|----------|--|
| Low temperature Medium temperature | | | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |



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| ring information was genera | - · · · / | |
|---|------------------|-------------|
| COP Tj = -7°C | 3.45 | 2.71 |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = +7°C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| 1 | | |



Model: AEROTOP SPLIT 11M-CR

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | AEROTOP SPLIT 11M-CR | |
| 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 | 3x230V 50Hz | |

Heating

| EN 14511-2 | | | |
|------------------------------------|----------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



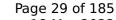


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

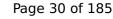
| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COP Tj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = +7°C | 5.36 kW | 4.90 kW |
| COP Tj = +7°C | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |



| I his information was genera | ted by the HF KETMAF | RK udtabase on 16 Mai 202 |
|---|----------------------|---------------------------|
| $COP Tj = -7^{\circ}C$ | 3.45 | 2.71 |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| $COP Tj = +2^{\circ}C$ | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| РСК | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| | | |

Domestic Hot Water (DHW)



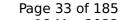
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 106 % | |
| СОР | 2.56 | |
| Heating up time | 01:28 h:min | |
| Standby power input | 52.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 251 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 °C | |
| Mixed water at 40°C | 248 I | |

Colder Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 89 % | |
| СОР | 2.15 | |
| Heating up time | 01:49 h:min | |
| Standby power input | 57.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 250 l | |

Model: ARIANEXT COMPACT 110 S-T LINK

| Configure model | | |
|--|---------------------------------|--|
| Model name ARIANEXT COMPACT 110 S-T 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 3x230V 50Hz | | |

Heating

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

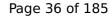
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



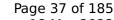


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

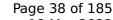
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



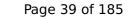


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| PTO | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |

Domestic Hot Water (DHW)

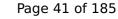
Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency ηDHW | 106 % |
| СОР | 2.56 |
| Heating up time | 01:28 h:min |
| Standby power input | 52.0 W |
| Reference hot water temperature | 53.6 °C |
| Mixed water at 40°C | 251 I |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency ηDHW | 111 % |
| COP | 2.70 |
| Heating up time | 01:16 h:min |
| Standby power input | 39.0 W |
| | 53.2 °C |
| Reference hot water temperature | |
| Mixed water at 40°C | 248 I |

Colder Climate





| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency ηDHW | 89 % |
| СОР | 2.15 |
| Heating up time | 01:49 h:min |
| Standby power input | 57.0 W |
| Reference hot water temperature | 53.6 °C |
| Mixed water at 40°C | 250 l |



Model: ARIANEXT FLEX 110 S-T LINK

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | ARIANEXT FLEX 110 S-T 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 | 3x230V 50Hz | |

Heating

COP

5.15

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |

3.17

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



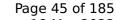


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| This information was gener | | |
|---|---------|---------|
| Pdesignh | 8.21 kW | 7.46 kW |
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| COP Tj = +2°C | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| COP Tj = +7°C | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



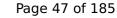


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| This internation was general | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.45 | 2.71 |
| Pdh Tj = $+2$ °C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| | | |

Domestic Hot Water (DHW)

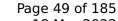
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 106 % | |
| СОР | 2.56 | |
| Heating up time | 01:28 h:min | |
| Standby power input | 52.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 251 l | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| | | |
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 ℃ | |
| Mixed water at 40°C | 248 | |

Colder Climate





| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency ηDHW | 89 % |
| СОР | 2.15 |
| Heating up time | 01:49 h:min |
| Standby power input | 57.0 W |
| Reference hot water temperature | 53.6 °C |
| Mixed water at 40°C | 250 l |



Model: ARIANEXT FLEX 110 S-T - 300 LINK

| Configure model | | |
|-------------------------------------|----------------------------------|--|
| Model name | ARIANEXT FLEX 110 S-T - 300 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 | 3x230V 50Hz | |

Heating

| EN 14511-2 | | | | |
|------------------------------------|----------|---------|--|--|
| Low temperature Medium temperature | | | | |
| Heat output | 10.60 kW | 9.55 kW | | |
| El input | 2.06 kW | 3.02 kW | | |
| СОР | 5.15 | 3.17 | | |

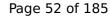
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



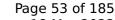


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

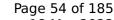
| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| | | |

Domestic Hot Water (DHW)

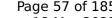
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 122 % | |
| СОР | 3.06 | |
| Heating up time | 01:52 h:min | |
| Standby power input | 53.0 W | |
| Reference hot water temperature | 54.5 °C | |
| Mixed water at 40°C | 434 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 132 % | |
| СОР | 3.30 | |
| Heating up time | 01:34 h:min | |
| Standby power input | 48.0 W | |
| Reference hot water temperature | 54.2 °C | |
| Mixed water at 40°C | 430 I | |

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 57 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 97 % | |
| СОР | 2.43 | |
| Heating up time | 02:15 h:min | |
| Standby power input | 63.0 W | |
| Reference hot water temperature | 53.4 °C | |
| Mixed water at 40°C | 422 I | |



Model: NIMBUS COMPACT 110 S-T NET

| Configure model | | |
|--|----------------------------|--|
| Model name | NIMBUS COMPACT 110 S-T 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 3x230V 50Hz | | |

Heating

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = $+7^{\circ}$ C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



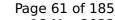


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

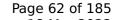
| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



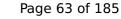


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| | | |

Domestic Hot Water (DHW)

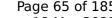
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 106 % | |
| СОР | 2.56 | |
| Heating up time | 01:28 h:min | |
| Standby power input | 52.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 251 | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 °C | |
| Mixed water at 40°C | 248 I | |

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 65 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 89 % | |
| СОР | 2.15 | |
| Heating up time | 01:49 h:min | |
| Standby power input | 57.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 250 l | |



Model: NIMBUS FLEX 110 S-T NET

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | NIMBUS FLEX 110 S-T 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 | 3x230V 50Hz | |

Heating

COP

| EN 14511-2 | | | |
|------------------------------------|----------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| | | | |

3.17

| 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

5.15



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = $+7^{\circ}$ C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



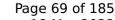


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| | | |

Domestic Hot Water (DHW)

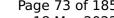
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 106 % | |
| СОР | 2.56 | |
| Heating up time | 01:28 h:min | |
| Standby power input | 52.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 251 | |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency ηDHW | 111 % |
| СОР | 2.70 |
| Heating up time | 01:16 h:min |
| Standby power input | 39.0 W |
| Reference hot water temperature | 53.2 °C |
| Mixed water at 40°C | 248 I |

Colder Climate





$$\operatorname{\textit{Page}}\ 73$$ of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 89 % | |
| СОР | 2.15 | |
| Heating up time | 01:49 h:min | |
| Standby power input | 57.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 250 I | |

Model: NIMBUS FLEX 110 S-T - 300 NET

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | NIMBUS FLEX 110 S-T - 300 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 | 3x230V 50Hz | |

Heating

| EN 14511-2 | | | |
|------------------------------------|----------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



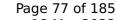


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| COP Tj = +2°C | 4.28 | 2.50 |
| Pdh Tj = +7°C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



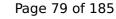


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |

Domestic Hot Water (DHW)

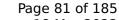
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 122 % | |
| СОР | 3.06 | |
| Heating up time | 01:52 h:min | |
| Standby power input | 53.0 W | |
| Reference hot water temperature | 54.5 °C | |
| Mixed water at 40°C | 434 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 132 % | |
| СОР | 3.30 | |
| Heating up time | 01:34 h:min | |
| Standby power input | 48.0 W | |
| Reference hot water temperature | 54.2 °C | |
| Mixed water at 40°C | 430 I | |

Colder Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 97 % | |
| СОР | 2.43 | |
| Heating up time | 02:15 h:min | |
| Standby power input | 63.0 W | |
| Reference hot water temperature | 53.4 °C | |
| Mixed water at 40°C | 422 I | |



Model: ARIANEXT COMPACT 110 S-T

| Configure model | | |
|---|--------------------------|--|
| Model name | ARIANEXT COMPACT 110 S-T | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility No | | |
| Cooling mode application (optional) n/a | | |

| General Data | | |
|--------------------------|--|--|
| Power supply 3x230V 50Hz | | |

Heating

| EN 14511-2 | | | | |
|------------------------------------|----------|---------|--|--|
| Low temperature Medium temperature | | | | |
| Heat output | 10.60 kW | 9.55 kW | | |
| El input | 2.06 kW | 3.02 kW | | |
| СОР | 5.15 | 3.17 | | |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



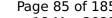
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This information was generated by the HP KEYMARK database on 18 Mar 2022

| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Domestic Hot Water (DHW)

Average Climate





$$\operatorname{\textit{Page}}\xspace$ 85 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency ηDHW | 127 % |
| СОР | 3.01 |
| Heating up time | 00:47 h:min |
| Standby power input | 38.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 247 I |



Model: ARIANEXT FLEX 110 S-T

| Configure model | | |
|-------------------------------------|--------------------------|--|
| Model name ARIANEXT FLEX 110 S-T | | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------------------|--|--|
| Power supply 3x230V 50Hz | | |

Heating

COP

5.15

| EN 14511-2 | | |
|------------------------------------|----------|--------------------|
| Low temperature Medium temperature | | Medium temperature |
| Heat output | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |

3.17

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



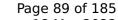
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This information was generated by the HP KEYMARK database on 18 Mar 2022

| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency ηDHW | 127 % |
| СОР | 3.01 |
| Heating up time | 00:47 h:min |
| Standby power input | 38.0 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 247 I |



Model: ARIANEXT FLEX 110 S-T - 300

| Configure model | | |
|--|--------------------------|--|
| Model name ARIANEXT FLEX 110 S-T - 300 | | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------------------|--|--|
| Power supply 3x230V 50Hz | | |

Heating

COP

5.15

| EN 14511-2 | | |
|------------------------------------|----------|--------------------|
| Low temperature Medium temperature | | Medium temperature |
| Heat output | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |

3.17

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



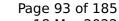
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This information was generated by the HP KEYMARK database on 18 Mar 2022

| | · · · · · · · · · · · · · · · · · · · | |
|---|---------------------------------------|-------------|
| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 131 % | |
| СОР | 3.10 | |
| Heating up time | 01:52 h:min | |
| Standby power input | 61.0 W | |
| Reference hot water temperature | 54.4 °C | |
| Mixed water at 40°C | 434 I | |



Model: AEROTOP SPLIT 11M-RX

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | AEROTOP SPLIT 11M-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 | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



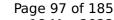


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

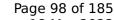
| EN 12102-1 | | | |
|------------------------------------|----------|----------|--|
| Low temperature Medium temperature | | | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COP Tj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |



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

| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |



Model: ARIANEXT PLUS 110 S LINK

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name ARIANEXT PLUS 110 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 | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

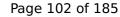
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



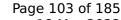


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

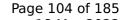
| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 1482 | 25 | |
|---------|-----------------|--------------------|
| | Low temperature | Medium temperature |





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COP Tj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |



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

| ins institution was genera | - · · · / - | |
|---|--------------------|-------------|
| COP Tj = -7°C | 3.45 | 2.71 |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = +7°C | 4.37 kW | 4.03 kW |
| $COPTj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| 1 | | |



Model: ARIANEXT PLUS 110 S

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | ARIANEXT PLUS 110 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

COP

5.15

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |

3.17

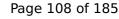
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | | | |
|---------------------------|-----------------|--------------------|--|--|
| | Low temperature | Medium temperature | | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | | |

| EN 14825 | | | |
|---------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Pdesignh | 12.29 kW | 11.54 kW | |
| η_{s} | 187 % | 135 % | |
| Prated | 12.29 kW | 11.54 kW | |
| SCOP | 4.74 | 3.46 | |
| Tbiv | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW | |
| COP Tj = -7°C | 3.21 | 2.32 | |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW | |
| COP Tj = +2°C | 4.52 | 3.32 | |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW | |
| COP Tj = +7°C | 6.12 | 4.38 | |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW | |
| COP Tj = 12°C | 9.15 | 6.59 | |



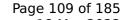


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

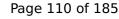
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| COP Tj = +2°C | 4.28 | 2.50 |
| Pdh Tj = +7°C | 5.36 kW | 4.90 kW |
| $COPTj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |



Page 111 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = $+2$ °C | 6.59 kW | 6.21 kW |
| Pull 1j = +2 C | 0.59 KW | 0.21 KW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |



Model: NIMBUS PLUS 110 S NET

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | NIMBUS PLUS 110 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 | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

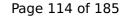
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



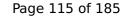


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

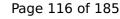
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

| EN 1482 | 25 | |
|---------|-----------------|--------------------|
| | Low temperature | Medium temperature |





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|-----------------------------|----------|----------|
| Low temperature Medium temp | | |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |



Page 117 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

| | ted by the fit RETINA | tik database on 10 mai 2022 |
|---|-----------------------|-----------------------------|
| COP Tj = -7°C | 3.45 | 2.71 |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| t | | |



Model: AEROTOP SPLIT 11M-CRX

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | AEROTOP SPLIT 11M-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 | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |
| СОР | 5.15 | 3.17 |

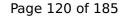
| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



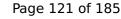


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

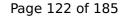
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| COP Tj = +2°C | 4.28 | 2.50 |
| Pdh Tj = +7°C | 5.36 kW | 4.90 kW |
| $COPTj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



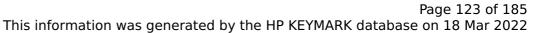


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|-----------------|---|--|
| Low temperature | Medium temperature | |
| 17.91 kW | 17.01 kW | |
| 149 % | 112 % | |
| 17.91 kW | 17.01 kW | |
| 3.80 | 2.87 | |
| -7 °C | -7 °C | |
| -20 °C | -20 °C | |
| 10.84 kW | 10.30 kW | |
| | Low temperature 17.91 kW 149 % 17.91 kW 3.80 -7 °C -20 °C | |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| PTO | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |

Domestic Hot Water (DHW)

53.6 °C

251 I

Average Climate

EN 16147 Declared load profile XLEfficiency ηDHW 106 % COP 2.56 Heating up time 01:28 h:min Standby power input 52.0 W

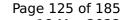
Warmer Climate

Mixed water at 40°C

Reference hot water temperature

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 °C | |
| Mixed water at 40°C | 248 | |

Colder Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 89 % | |
| СОР | 2.15 | |
| Heating up time | 01:49 h:min | |
| Standby power input | 57.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 250 l | |



Model: ARIANEXT COMPACT 110 S LINK

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | ARIANEXT COMPACT 110 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 | | Medium temperature | |
| Heat output | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

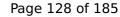
| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = $+7^{\circ}$ C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |
| | ı | 1 |



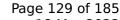


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

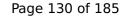
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{S} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |
| | | |



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

| This information was general | | |
|---|-------------|-------------|
| COP Tj = -7°C | 3.45 | 2.71 |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |
| | | |

Domestic Hot Water (DHW)



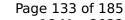
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 106 % | |
| СОР | 2.56 | |
| Heating up time | 01:28 h:min | |
| Standby power input | 52.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 251 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| | | |
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 ℃ | |
| Mixed water at 40°C | 248 | |

Colder Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 89 % | |
| СОР | 2.15 | |
| Heating up time | 01:49 h:min | |
| Standby power input | 57.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 250 I | |



Model: ARIANEXT FLEX 110 S LINK

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | ARIANEXT FLEX 110 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 | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



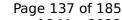


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

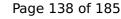
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| This information was generated by the HP KEYMARK database on 18 Mar | | | |
|---|-------------|-------------|--|
| COP Tj = -7°C | 3.45 | 2.71 | |
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW | |
| $COP Tj = +2^{\circ}C$ | 4.91 | 3.76 | |
| Pdh Tj = +7°C | 4.37 kW | 4.03 kW | |
| $COPTj = +7^{\circ}C$ | 6.56 | 5.04 | |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW | |
| COP Tj = 12°C | 9.15 | 7.64 | |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW | |
| COP Tj = Tbiv | 3.45 | 2.71 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 8.78 kW | 4.30 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 | |
| WTOL | 60 °C | 60 °C | |
| Poff | 18 W | 18 W | |
| РТО | 19 W | 19 W | |
| PSB | 18 W | 18 W | |
| PCK | 18 W | 18 W | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW | |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh | |
| | | | |

Domestic Hot Water (DHW)



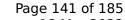
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 106 % | |
| СОР | 2.56 | |
| Heating up time | 01:28 h:min | |
| Standby power input | 52.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 251 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 °C | |
| Mixed water at 40°C | 248 I | |

Colder Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 89 % | |
| СОР | 2.15 | |
| Heating up time | 01:49 h:min | |
| Standby power input | 57.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 250 l | |



Model: ARIANEXT FLEX 110 S - 300 LINK

| Configure model | | |
|--|--------------------------------|--|
| Model name | ARIANEXT FLEX 110 S - 300 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 | 10.60 kW | 9.55 kW | | |
| El input | 2.06 kW | 3.02 kW | | |
| СОР | 5.15 | 3.17 | | |

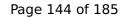
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



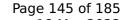


| Pdh Tj = Tbiv 10.87 kW 10.21 kW COP Tj = Tbiv 3.21 2.32 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 12.08 kW 10.36 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.80 1.82 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW Annual energy consumption Qhe 5358 kWh 6891 kWh | | | |
|---|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | COP Tj = Tbiv | 3.21 | 2.32 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| WTOL 60 °C 60 °C 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | WTOL | 60 °C | 60 °C |
| PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | Poff | 18 W | 18 W |
| PCK 18 W 18 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | РТО | 19 W | 19 W |
| Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 3.08 kW 1.18 kW | PSB | 18 W | 18 W |
| Supplementary Heater: PSUP 3.08 kW 1.18 kW | PCK | 18 W | 18 W |
| | Supplementary Heater: Type of energy input | Electricity | Electricity |
| Annual energy consumption Qhe 5358 kWh 6891 kWh | Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| | Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COP Tj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



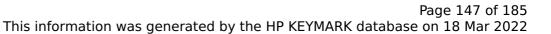


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| PTO | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |

Domestic Hot Water (DHW)



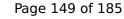
Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XXL |
| Efficiency ηDHW | 122 % |
| СОР | 3.06 |
| Heating up time | 01:52 h:min |
| Standby power input | 53.0 W |
| Reference hot water temperature | 54.5 °C |
| Mixed water at 40°C | 434 |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XXL |
| Efficiency ηDHW | 132 % |
| СОР | 3.30 |
| Heating up time | 01:34 h:min |
| Standby power input | 48.0 W |
| Reference hot water temperature | 54.2 °C |
| Mixed water at 40°C | 430 I |

Colder Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 97 % | |
| СОР | 2.43 | |
| Heating up time | 02:15 h:min | |
| Standby power input | 63.0 W | |
| Reference hot water temperature | 53.4 °C | |
| Mixed water at 40°C | 422 I | |



Model: NIMBUS COMPACT 110 S NET

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | NIMBUS COMPACT 110 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 | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |
| СОР | 5.15 | 3.17 |

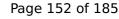
| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed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

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



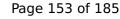


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

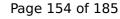
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| COP Tj = +2°C | 4.28 | 2.50 |
| Pdh Tj = +7°C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



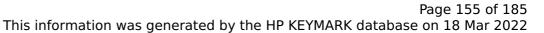


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| This information was generated by the HF KETMARK database on 10 Mai 2022 | | |
|--|--|--|
| 3.45 | 2.71 | |
| 6.59 kW | 6.21 kW | |
| 4.91 | 3.76 | |
| 4.37 kW | 4.03 kW | |
| 6.56 | 5.04 | |
| 4.42 kW | 4.28 kW | |
| 9.15 | 7.64 | |
| 10.84 kW | 10.30 kW | |
| 3.45 | 2.71 | |
| 8.78 kW | 4.30 kW | |
| 2.20 | 0.92 | |
| 0.90 | 0.90 | |
| 60 °C | 60 °C | |
| 18 W | 18 W | |
| 19 W | 19 W | |
| 18 W | 18 W | |
| 18 W | 18 W | |
| Electricity | Electricity | |
| 6.00 kW | 6.00 kW | |
| 11631 kWh | 14593 kWh | |
| | 6.59 kW 4.91 4.37 kW 6.56 4.42 kW 9.15 10.84 kW 3.45 8.78 kW 2.20 0.90 60 °C 18 W 19 W 18 W 18 W Electricity 6.00 kW | |

Domestic Hot Water (DHW)



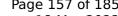
Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 106 % |
| СОР | 2.56 |
| Heating up time | 01:28 h:min |
| Standby power input | 52.0 W |
| Reference hot water temperature | 53.6 °C |
| Mixed water at 40°C | 251 I |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 °C | |
| Mixed water at 40°C | 248 I | |

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 157 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency ηDHW | 89 % |
| СОР | 2.15 |
| Heating up time | 01:49 h:min |
| Standby power input | 57.0 W |
| Reference hot water temperature | 53.6 °C |
| Mixed water at 40°C | 250 I |



Model: NIMBUS FLEX 110 S NET

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | NIMBUS FLEX 110 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 | |

EN 14511-2

Heating

| Low temperature | Medium temperature |
|-----------------|--------------------|
| 10.60 kW | 9.55 kW |
| | |

| Heat output | 10.60 kW | 9.55 kW |
|-------------|----------|---------|
| El input | 2.06 kW | 3.02 kW |
| СОР | 5.15 | 3.17 |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | | |
|---------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Pdesignh | 12.29 kW | 11.54 kW | |
| η_{s} | 187 % | 135 % | |
| Prated | 12.29 kW | 11.54 kW | |
| SCOP | 4.74 | 3.46 | |
| Tbiv | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW | |
| COP Tj = -7°C | 3.21 | 2.32 | |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW | |
| COP Tj = +2°C | 4.52 | 3.32 | |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW | |
| COP Tj = +7°C | 6.12 | 4.38 | |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW | |
| COP Tj = 12°C | 9.15 | 6.59 | |



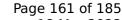


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Warmer Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 43 dB(A) | 43 dB(A) | |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) | |

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COPTj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| $COP Tj = +7^{\circ}C$ | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |



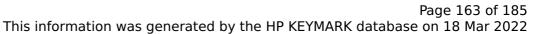


| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|-----------------|---|--|
| Low temperature | Medium temperature | |
| 17.91 kW | 17.01 kW | |
| 149 % | 112 % | |
| 17.91 kW | 17.01 kW | |
| 3.80 | 2.87 | |
| -7 °C | -7 °C | |
| -20 °C | -20 °C | |
| 10.84 kW | 10.30 kW | |
| | Low temperature 17.91 kW 149 % 17.91 kW 3.80 -7 °C -20 °C | |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| PTO | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |

Domestic Hot Water (DHW)



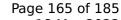
Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 106 % | |
| СОР | 2.56 | |
| Heating up time | 01:28 h:min | |
| Standby power input | 52.0 W | |
| Reference hot water temperature | 53.6 °C | |
| Mixed water at 40°C | 251 I | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 111 % | |
| СОР | 2.70 | |
| Heating up time | 01:16 h:min | |
| Standby power input | 39.0 W | |
| Reference hot water temperature | 53.2 °C | |
| Mixed water at 40°C | 248 I | |

Colder Climate





| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency ηDHW | 89 % |
| СОР | 2.15 |
| Heating up time | 01:49 h:min |
| Standby power input | 57.0 W |
| Reference hot water temperature | 53.6 °C |
| Mixed water at 40°C | 250 l |



Model: NIMBUS FLEX 110 S - 300 NET

| Configure model | |
|--|---------------------------------|
| Model name NIMBUS FLEX 110 S - 300 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 | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



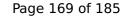


| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Warmer Climate

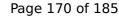
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

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





| Pdesignh | 8.21 kW | 7.46 kW |
|---|---------|---------|
| η_{s} | 250 % | 161 % |
| Prated | 8.21 kW | 7.46 kW |
| SCOP | 6.33 | 4.09 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 8.21 kW | 7.46 kW |
| $COP Tj = +2^{\circ}C$ | 4.28 | 2.50 |
| Pdh Tj = $+7^{\circ}$ C | 5.36 kW | 4.90 kW |
| COP Tj = +7°C | 5.51 | 3.34 |
| Pdh Tj = 12°C | 4.39 kW | 4.14 kW |
| COP Tj = 12°C | 8.35 | 5.86 |
| Pdh Tj = Tbiv | 8.21 kW | 7.46 kW |
| COP Tj = Tbiv | 4.28 | 2.50 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.21 kW | 7.46 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.28 | 2.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |





| PSB | 18 W | 18 W |
|--|-------------|-------------|
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1734 kWh | 2436 kWh |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 17.91 kW | 17.01 kW |
| η_{s} | 149 % | 112 % |
| Prated | 17.91 kW | 17.01 kW |
| SCOP | 3.80 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 10.84 kW | 10.30 kW |





| COP Tj = -7°C | 3.45 | 2.71 |
|---|-------------|-------------|
| Pdh Tj = +2°C | 6.59 kW | 6.21 kW |
| COP Tj = +2°C | 4.91 | 3.76 |
| Pdh Tj = $+7^{\circ}$ C | 4.37 kW | 4.03 kW |
| $COP Tj = +7^{\circ}C$ | 6.56 | 5.04 |
| Pdh Tj = 12°C | 4.42 kW | 4.28 kW |
| COP Tj = 12°C | 9.15 | 7.64 |
| Pdh Tj = Tbiv | 10.84 kW | 10.30 kW |
| COP Tj = Tbiv | 3.45 | 2.71 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.20 | 0.92 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.00 kW | 6.00 kW |
| Annual energy consumption Qhe | 11631 kWh | 14593 kWh |

Domestic Hot Water (DHW)

Average Climate

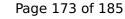
This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 122 % | |
| СОР | 3.06 | |
| Heating up time | 01:52 h:min | |
| Standby power input | 53.0 W | |
| Reference hot water temperature | 54.5 °C | |
| Mixed water at 40°C | 434 | |

Warmer Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 132 % | |
| СОР | 3.30 | |
| Heating up time | 01:34 h:min | |
| Standby power input | 48.0 W | |
| Reference hot water temperature | 54.2 °C | |
| Mixed water at 40°C | 430 I | |

Colder Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XXL | |
| Efficiency ηDHW | 97 % | |
| СОР | 2.43 | |
| Heating up time | 02:15 h:min | |
| Standby power input | 63.0 W | |
| Reference hot water temperature | 53.4 °C | |
| Mixed water at 40°C | 422 I | |



Model: ARIANEXT COMPACT 110 S

| Configure model | | |
|-------------------------------------|--------------------------|--|
| Model name | ARIANEXT COMPACT 110 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 | 10.60 kW | 9.55 kW | |
| El input | 2.06 kW | 3.02 kW | |
| СОР | 5.15 | 3.17 | |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



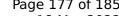
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This information was generated by the HP KEYMARK database on 18 Mar 2022

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|---|---------------------------------------|-------------|
| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Domestic Hot Water (DHW)

Average Climate





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| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 127 % | |
| СОР | 3.01 | |
| Heating up time | 00:47 h:min | |
| Standby power input | 38.0 W | |
| Reference hot water temperature | 52.5 °C | |
| Mixed water at 40°C | 247 I | |



Model: ARIANEXT FLEX 110 S

| Configure model | | |
|-------------------------------------|--------------------------|--|
| Model name ARIANEXT FLEX 110 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 | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |
| СОР | 5.15 | 3.17 |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = $+2$ °C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = $+7^{\circ}$ C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



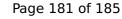
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| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 127 % | |
| СОР | 3.01 | |
| Heating up time | 00:47 h:min | |
| Standby power input | 38.0 W | |
| Reference hot water temperature | 52.5 °C | |
| Mixed water at 40°C | 247 I | |



Model: ARIANEXT FLEX 110 S - 300

| Configure model | | |
|-------------------------------------|---------------------------|--|
| Model name | ARIANEXT FLEX 110 S - 300 | |
| 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 | 10.60 kW | 9.55 kW |
| El input | 2.06 kW | 3.02 kW |
| СОР | 5.15 | 3.17 |

| 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 | 43 dB(A) | 43 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Pdesignh | 12.29 kW | 11.54 kW |
| η_{s} | 187 % | 135 % |
| Prated | 12.29 kW | 11.54 kW |
| SCOP | 4.74 | 3.46 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.87 kW | 10.21 kW |
| COP Tj = -7°C | 3.21 | 2.32 |
| Pdh Tj = +2°C | 6.67 kW | 6.21 kW |
| COP Tj = +2°C | 4.52 | 3.32 |
| Pdh Tj = +7°C | 4.33 kW | 3.99 kW |
| COP Tj = +7°C | 6.12 | 4.38 |
| Pdh Tj = 12°C | 4.42 kW | 4.27 kW |
| COP Tj = 12°C | 9.15 | 6.59 |



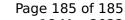
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This information was generated by the HP KEYMARK database on 18 Mar 2022

| | · · · · · · · · · · · · · · · · · · · | |
|---|---------------------------------------|-------------|
| Pdh Tj = Tbiv | 10.87 kW | 10.21 kW |
| COP Tj = Tbiv | 3.21 | 2.32 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.08 kW | 10.36 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.80 | 1.82 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 18 W | 18 W |
| РТО | 19 W | 19 W |
| PSB | 18 W | 18 W |
| PCK | 18 W | 18 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.08 kW | 1.18 kW |
| Annual energy consumption Qhe | 5358 kWh | 6891 kWh |
| | | |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 131 % | |
| СОР | 3.10 | |
| Heating up time | 01:52 h:min | |
| Standby power input | 61.0 W | |
| Reference hot water temperature | 54.4 °C | |
| Mixed water at 40°C | 434 | |