

This information was generated by the HP KEYMARK database on 31 Jul 2022

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| | | | |
|---------------------|-----------------------------|----------|---------------|
| Summary of | Alféa Excellia HP A.I. 16 | Reg. No. | 012-SC0755-18 |
| Certificate Holder | | | |
| Name | Groupe Atlantic | | |
| Address | 44 boulevard des Etats-Unis | Zip | 85000 |
| City | La Roche Sur Yon | Country | France |
| Certification Body | RISE CERT | | |
| Subtype title | Alféa Excellia HP A.I. 16 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 3.8 kg | | |

Model: Alféa Excellia HP A.I. 16

| Configure model | |
|-------------------------------------|---------------------------|
| Model name | Alféa Excellia HP A.I. 16 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-4 | |
|--|--------|
| 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 |

| EN 14511-2 | | |
|-------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Heat output | 16.46 kW | 14.86 kW |
| El input | 3.94 kW | 5.65 kW |
| COP | 4.18 | 2.63 |

Average Climate

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| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 163 % | 125 % |
| Prated | 16.00 kW | 14.00 kW |
| SCOP | 4.15 | 3.21 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 14.20 kW | 12.00 kW |
| COP Tj = -7°C | 2.79 | 1.98 |
| Pdh Tj = +2°C | 8.70 kW | 7.30 kW |
| COP Tj = +2°C | 4.17 | 3.15 |
| Pdh Tj = +7°C | 7.00 kW | 6.30 kW |
| COP Tj = +7°C | 5.34 | 4.30 |
| Pdh Tj = 12°C | 8.10 kW | 7.60 kW |
| COP Tj = 12°C | 6.76 | 5.99 |
| Pdh Tj = Tbiv | 14.20 kW | 12.00 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.79 | 1.98 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 10.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.54 | 1.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.92 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 19 W | 19 W |
| PTO | 100 W | 46 W |
| PSB | 23 W | 23 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.00 kW | 3.00 kW |
| Annual energy consumption Qhe | 8014 kWh | 8757 kWh |

Model: **Alféa Excellia HP Duo A.I. 16**

| Configure model | |
|-------------------------------------|-------------------------------|
| Model name | Alféa Excellia HP Duo A.I. 16 |
| 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 14511-4 | |
|--|--------|
| 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 |

| EN 14511-2 | | |
|-------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Heat output | 16.46 kW | 14.86 kW |
| El input | 3.94 kW | 5.65 kW |
| COP | 4.18 | 2.63 |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 163 % | 125 % |
| Prated | 16.00 kW | 14.00 kW |
| SCOP | 4.15 | 3.21 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 14.20 kW | 12.00 kW |
| COP Tj = -7°C | 2.79 | 1.98 |
| Pdh Tj = +2°C | 8.70 kW | 7.30 kW |
| COP Tj = +2°C | 4.17 | 3.15 |
| Pdh Tj = +7°C | 7.00 kW | 6.30 kW |
| COP Tj = +7°C | 5.34 | 4.30 |
| Pdh Tj = 12°C | 8.10 kW | 7.60 kW |
| COP Tj = 12°C | 6.76 | 5.99 |
| Pdh Tj = Tbiv | 14.20 kW | 12.00 kW |

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|---|-------------|-------------|
| COP Tj = Tbiv | 2.79 | 1.98 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 10.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.54 | 1.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.92 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 19 W | 19 W |
| PTO | 100 W | 46 W |
| PSB | 23 W | 23 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.00 kW | 3.00 kW |
| Annual energy consumption Qhe | 8014 kWh | 8757 kWh |

Domestic Hot Water (DHW)

Average Climate

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| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 109 % |
| COP | 2.56 |
| Heating up time | 0:54 h:min |
| Standby power input | 48.0 W |
| Reference hot water temperature | 54.2 °C |
| Mixed water at 40°C | 250 l |