Login

| Summary of | Alféa Excellia HP A.I. Tri 15 | Reg. No. | 012-SC0306-18 |
|---|---|---|---|
| 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. Tri 15 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 3.8 kg | | |

# Model: Alféa Excellia HP A.I. Tri 15

| Configure model | |
|---|---|
| Model name | Alféa Excellia HP A.I. Tri 15 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 15.10 kW | 13.46 kW |
| El input | 3.48 kW | 4.75 kW |
| COP | 4.34 | 2.83 |

| 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 | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 164 % | 130 % |
| Prated | 17.00 kW | 16.00 kW |
| SCOP | 4.18 | 3.33 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 15.40 kW | 14.20 kW |
| COP Tj = -7°C | 2.90 | 2.12 |
| Pdh Tj = +2°C | 9.40 kW | 8.60 kW |
| COP Tj = +2°C | 4.19 | 3.30 |
| Pdh Tj = +7°C | 6.70 kW | 6.40 kW |
| COP Tj = +7°C | 5.13 | 4.21 |
| Pdh Tj = 12°C | 8.00 kW | 7.60 kW |
| COP Tj = 12°C | 6.83 | 6.02 |
| Pdh Tj = Tbiv | 15.40 kW | 14.20 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 2.90 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.70 kW | 13.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.62 | 1.88 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.93 | 0.97 |
| WTOL | 60 °C | 60 °C |
| Poff | 16 W | 16 W |
| PTO | 96 W | 43 W |
| PSB | 19 W | 19 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.70 kW | 2.70 kW |
| Annual energy consumption Qhe | 8606 kWh | 9915 kWh |

# Model: Alféa Excellia HP Duo A.I. Tri 15

| Configure model | |
|---|---|
| Model name | Alféa Excellia HP Duo A.I. Tri 15 |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 15.10 kW | 13.46 kW |
| El input | 3.48 kW | 4.75 kW |
| COP | 4.34 | 2.83 |

| 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 | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 164 % | 130 % |
| Prated | 17.00 kW | 16.00 kW |
| SCOP | 4.18 | 3.33 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 15.40 kW | 14.20 kW |
| COP Tj = -7°C | 2.90 | 2.12 |
| Pdh Tj = +2°C | 9.40 kW | 8.60 kW |
| COP Tj = +2°C | 4.19 | 3.30 |
| Pdh Tj = +7°C | 6.70 kW | 6.40 kW |
| COP Tj = +7°C | 5.13 | 4.21 |
| Pdh Tj = 12°C | 8.00 kW | 7.60 kW |
| COP Tj = 12°C | 6.83 | 6.02 |
| Pdh Tj = Tbiv | 15.40 kW | 14.20 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 2.90 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.70 kW | 13.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.62 | 1.88 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.93 | 0.97 |
| WTOL | 60 °C | 60 °C |
| Poff | 16 W | 16 W |
| PTO | 96 W | 43 W |
| PSB | 19 W | 19 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.70 kW | 2.70 kW |
| Annual energy consumption Qhe | 8606 kWh | 9915 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 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 |