

Subtype Alféa Excellia A.I. 14 2024

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|---------------------|--|
| Certificate Holder | Groupe Atlantic |
| Address | Rue des Fondateurs BP 64 |
| ZIP | 59660 |
| City | Merville |
| Country | FR |
| Certification Body | RISE CERT |
| Subtype title | Alféa Excellia A.I. 14 2024 |
| Registration number | 012-C700255 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 2.5 kg |
| Certification Date | 04.03.2024 |
| Testing basis | EN 14511:2022, EN 14825:2022, EN 16147:2017, EN 12102:2022 |

Model Alféa Excellia A.I. 14 2024

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|-------------------------------------|-----------------------------|
| Model name | Alféa Excellia A.I. 14 2024 |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 13.50 kW | 9.80 kW |
| El input | 3.23 kW | 4.00 kW |
| COP | 4.18 | 2.45 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 40 dB(A) | 40 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 155 % | 120 % |
| Prated | 13.20 kW | 11.30 kW |
| SCOP | 3.95 | 3.08 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.70 kW | 10.00 kW |
| COP Tj = -7°C | 2.55 | 2.01 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| Pdh Tj = +2°C | 7.10 kW | 6.10 kW |
| COP Tj = +2°C | 3.72 | 2.92 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 6.40 kW | 6.00 kW |

| | | |
|---|-------------|-------------|
| COP Tj = +7°C | 5.59 | 4.22 |
| Cdh Tj = +7 °C | 0.980 | 0.990 |
| Pdh Tj = 12°C | 7.00 kW | 7.20 kW |
| COP Tj = 12°C | 6.60 | 5.49 |
| Cdh Tj = +12 °C | 0.980 | 0.980 |
| Pdh Tj = Tbiv | 11.70 kW | 10.00 kW |
| COP Tj = Tbiv | 2.55 | 2.01 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.20 kW | 8.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.46 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| WTOL | 60 °C | 60 °C |
| Poff | 7 W | 7 W |
| PTO | 20 W | 20 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.00 kW | 2.90 kW |
| Annual energy consumption Qhe | 6899 kWh | 7574 kWh |

Model Alféa Excellia Duo A.I. 14 2024

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|-------------------------------------|---------------------------------|
| Model name | Alféa Excellia Duo A.I. 14 2024 |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 100 % |
| COP | 2.50 |
| Heating up time | 1:10 h:min |
| Standby power input | 40.0 W |
| Reference hot water temperature | 54.2 °C |
| Mixed water at 40°C | 250 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 13.50 kW | 9.80 kW |
| El input | 3.23 kW | 4.00 kW |
| COP | 4.18 | 2.45 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 40 dB(A) | 40 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 155 % | 120 % |
| Prated | 13.20 kW | 11.30 kW |

| | | |
|---|-------------|-------------|
| SCOP | 3.95 | 3.08 |
| Tbiv | -7  C | -7  C |
| TOL | -10  C | -10  C |
| Pdh Tj = -7 C | 11.70 kW | 10.00 kW |
| COP Tj = -7 C | 2.55 | 2.01 |
| Cdh Tj = -7  C | 1.000 | 1.000 |
| Pdh Tj = +2 C | 7.10 kW | 6.10 kW |
| COP Tj = +2 C | 3.72 | 2.92 |
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| WTOL | 60  C | 60  C |
| Poff | 7 W | 7 W |
| PTO | 20 W | 20 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.00 kW | 2.90 kW |
| Annual energy consumption Qhe | 6899 kWh | 7574 kWh |