

Subtype Alféa Excellia HP A.I. Tri 15

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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 HP A.I. Tri 15 |
| Registration number | 012-SC0306-18 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 3.8 kg |
| Certification Date | 09.12.2022 |
| Testing basis | EN 14511:2013, EN 16147:2017, EN 14825:2016, EN 12102:2013 |
| Testing laboratory | RISE Research Institutes of Sweden |

Model Alféa Excellia HP A.I. Tri 15

| | |
|-------------------------------------|-------------------------------|
| Model name | Alféa Excellia HP A.I. Tri 15 |
| 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 | 3x400V 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 |

EN 14511-2 | Heating

| | 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 12102-1 | Average Climate

| | 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 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 164 % | 130 % |
| Prated | 17.40 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 |
| Cdh Tj = -7 °C | 0.980 | 0.990 |
| Pdh Tj = +2°C | 9.40 kW | 8.60 kW |
| COP Tj = +2°C | 4.19 | 3.30 |
| Cdh Tj = +2 °C | 0.960 | 0.980 |
| Pdh Tj = +7°C | 6.70 kW | 6.40 kW |
| COP Tj = +7°C | 5.13 | 4.21 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +7  C | 0.930 | 0.970 |
| Pdh Tj = 12 C | 8.00 kW | 7.60 kW |
| COP Tj = 12 C | 6.83 | 6.02 |
| Cdh Tj = +12  C | 0.920 | 0.970 |
| 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 | 0.980 | 0.970 |
| 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

| | |
|-------------------------------------|-----------------------------------|
| Model name | Alféa Excellia HP Duo A.I. Tri 15 |
| 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 | 3x400V 50Hz |
| Off-peak product | No |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| 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 |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |

EN 14511-2 | Heating

| | 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 12102-1 | Average Climate

| | 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 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 164 % | 130 % |
| Prated | 17.40 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 |
| Cdh Tj = -7  C | 0.980 | 0.990 |
| Pdh Tj = +2 C | 9.40 kW | 8.60 kW |
| COP Tj = +2 C | 4.19 | 3.30 |
| Cdh Tj = +2  C | 0.960 | 0.980 |
| Pdh Tj = +7 C | 6.70 kW | 6.40 kW |
| COP Tj = +7 C | 5.13 | 4.21 |
| Cdh Tj = +7  C | 0.930 | 0.970 |
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| Pdh Tj = Tbiv | 15.40 kW | 14.20 kW |
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| 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 | 0.980 | 0.970 |
| 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 |