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|---------------------|---|----------|-------------|
| Summary of | Thermastage Compact Combi TCC13-16/ TOC13RIYF | Reg. No. | 012-C700092 |
| 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 | Thermastage Compact Combi TCC13-16/ TOC13RIYF | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 2.5 kg | | |
| Certification Date | 22.12.2020 | | |
| Testing basis | HP Keymark Scheme 2017 | | |

Model: Compact Combi TCC13-16/ TOC13RIYF

| Configure model | |
|-------------------------------------|-----------------------------------|
| Model name | Compact Combi TCC13-16/ TOC13RIYF |
| 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 | 10.80 kW | 9.29 kW |
| El input | 2.51 kW | 3.52 kW |
| COP | 4.30 | 2.64 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 46 dB(A) | 46 dB(A) |
| Sound power level outdoor | 68 dB(A) | 68 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 154 % | 112 % |
| Prated | 11.00 kW | 9.00 kW |
| SCOP | 3.92 | 2.87 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.00 kW | 8.20 kW |
| COP Tj = -7°C | 2.70 | 1.90 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 6.10 kW | 5.00 kW |
| COP Tj = +2°C | 3.70 | 2.70 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 6.20 kW | 5.90 kW |
| COP Tj = +7°C | 5.50 | 3.90 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |

This information was generated by the HP KEYMARK database on 22 Jun 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 7.40 kW | 7.00 kW |
| COP Tj = 12°C | 7.10 | 5.20 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 10.00 kW | 8.20 kW |
| COP Tj = Tbiv | 2.70 | 1.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.90 kW | 8.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.60 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 60 °C | 60 °C |
| Poff | 14 W | 14 W |
| PTO | 44 W | 32 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.10 kW | 0.90 kW |
| Annual energy consumption Qhe | 5930 kWh | 6669 kWh |