

Subtype Air to Water Heat Pump- R290- 8kW-C-100L

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|---------------------|--|
| Certificate Holder | Aira Group AB |
| Address | Norra Stationsgatan 93C |
| ZIP | 11364 |
| City | Stockholm |
| Country | SE |
| Certification Body | BRE Global Limited |
| Subtype title | Air to Water Heat Pump- R290- 8kW-C-100L |
| Registration number | 041-K087-03 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R290 |
| Mass of Refrigerant | 0.9 kg |
| Certification Date | 11.03.2024 |
| Testing basis | Heat Pump Keymark Scheme Rules Rev 13 |
| Testing laboratory | TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN |

Model Indoor unit: HPI-AO-100-1.0, Outdoor unit: HPO-AW-8-230V-1.0

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| Model name | Indoor unit: HPI-AO-100-1.0, Outdoor unit: HPO-AW-8-230V-1.0 |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| 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 | M |
| Efficiency η_{DHW} | 76 % |
| COP | 1.73 |
| Heating up time | 1:7:32 h:min |
| Standby power input | 53.0 W |
| Reference hot water temperature | 48.5 °C |
| Mixed water at 40°C | 106 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

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

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.81 kW | 9.21 kW |
| El input | 1.95 kW | 3.05 kW |
| COP | 4.52 | 3.02 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 45 dB(A) |
| Sound power level outdoor | 55 dB(A) | 58 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 185 % | 141 % |

| | | |
|---|-------------|-------------|
| Prated | 8.77 kW | 8.65 kW |
| SCOP | 4.70 | 3.61 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.75 kW | 7.65 kW |
| COP Tj = -7°C | 2.85 | 2.40 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 4.88 kW | 4.85 kW |
| COP Tj = +2°C | 4.76 | 3.58 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 4.23 kW | 4.10 kW |
| COP Tj = +7°C | 6.38 | 4.73 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 5.03 kW | 4.93 kW |
| COP Tj = 12°C | 8.45 | 6.46 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 7.75 kW | 7.65 kW |
| COP Tj = Tbiv | 2.85 | 2.40 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.22 kW | 6.62 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.73 | 2.03 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 70 °C | 70 °C |
| Poff | 11 W | 11 W |
| PTO | 46 W | 46 W |
| PSB | 11 W | 11 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.55 kW | 2.03 kW |
| Annual energy consumption Qhe | 3851 kWh | 4955 kWh |