

## Subtype DAIKIN ALTHERMA 4 H F 12-14 kW 230L (3ph)

|                     |   |
|---------------------|---|
| Certificate Holder  | DAIKIN Europe N.V.                                    |
| Address             | Zandvoordestraat 300                                  |
| ZIP                 | B-8400  |
| City                | Oostende  |
| Country             | BE  |
| Certification Body  | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title       | DAIKIN ALTHERMA 4 H F 12-14 kW 230L (3ph)             |
| Registration number | 011-1W0933  |
| Heat Pump Type      | Outdoor Air/Water                                     |
| Refrigerant         | R290  |
| Mass of Refrigerant | 1.25 kg   |
| Certification Date  | 05.12.2024  |
| Testing basis       | HP KEYMARK certification scheme rules rev. 14         |

## Model EPSK14AW1 / EPVX14S23A(4V9W)

|                                     |                              |
|-------------------------------------|------------------------------|
| Model name                          | EPSK14AW1 / EPVX14S23A(4V9W) |
| Application                         | Heating + DHW + low temp     |
| Units                               | Indoor, Outdoor              |
| Climate zone (for heating)          | n/a                          |
| Heat Source                         | Outdoor Air                  |
| Reversibility                       | Yes                          |
| Cooling mode application (optional) | +7°C/12°C                    |
| Any additional heat sources         | n/a                          |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 121.2 %    |
| COP                             | 3.03       |
| Heating up time                 | 1:21 h:min |
| Standby power input             | 33.5 W     |
| Reference hot water temperature | 47.4 °C    |
| Mixed water at 40°C             | 253.3 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 | 10.2 kW         | 10.91 kW           |
| El input    | 1.86 kW         | 3.03 kW            |
| COP         | 5.5             | 3.6                |

## EN 14511-2 | Cooling

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 3.45 kW    |             |
| Cooling capacity | 11.3       |             |
| EER              | 3.28       |             |

## EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45 dB(A)        | 45 dB(A)           |
| Sound power level outdoor | 52 dB(A)        | 52 dB(A)           |

## EN 14825 | Average Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| $\eta_s$  | 195 %           | 150 %              |
| Prated  | 12.00 kW        | 14.00 kW           |
| SCOP  | 4.96            | 3.84               |
| Tbiv  | -10 °C          | -10 °C             |
| TOL   | -10 °C          | -10 °C             |
| Pdh Tj = -7°C                                       | 10.90 kW        | 12.40 kW           |
| COP Tj = -7°C                                       | 3.45            | 2.52               |
| Cdh Tj = -7 °C                                      | 1.000           |                    |
| Pdh Tj = +2°C                                       | 6.70 kW         | 8.00 kW            |
| COP Tj = +2°C                                       | 4.58            | 3.52               |
| Cdh Tj = +2 °C                                      | 1.000           | 1.000              |
| Pdh Tj = +7°C                                       | 8.00 kW         | 5.10 kW            |
| COP Tj = +7°C                                       | 6.67            | 5.38               |
| Cdh Tj = +7 °C                                      | 1.000           | 1.000              |
| Pdh Tj = 12°C                                       | 8.60 kW         | 7.70 kW            |
| COP Tj = 12°C                                       | 8.42            | 6.50               |
| Cdh Tj = +12 °C                                     | 1.000           | 1.000              |
| Pdh Tj = Tbiv                                       | 12.50 kW        | 14.30 kW           |
| COP Tj = Tbiv                                       | 3.18            | 2.29               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.50 kW        | 14.30 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.18            | 2.29               |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |                 |                    |
| WTOL  | 35 °C           | 55 °C              |
| Poff  | 22 W            | 22 W               |
| PTO   | 22 W            | 22 W               |
| PSB   | 22 W            | 22 W               |
| PCK   | 0 W             | 0 W                |
| Supplementary Heater: Type of energy input          | Electricity     | Electricity        |
| Supplementary Heater: PSUP                          | 0.00 kW         | 0.00 kW            |
| Annual energy consumption Qhe                       | 4999 kWh        | 7537 kWh           |

## EN 14825 | Cooling

|               | +7°C/+12°C | +18°C/+23°C |
|---------------|------------|-------------|
| Pdesignc      | 11 kW      |             |
| SEER          | 5.12       |             |
| Pdc Tj = 35°C | 11.3 kW    |             |
| EER Tj = 35°C | 3.28       |             |

|                               |          |
|-------------------------------|----------|
| Pdc Tj = 30°C                 | 8.01 kW  |
| EER Tj = 30°C                 | 4.6      |
| Cdc Tj = 30 °C                | 0.99     |
| Pdc Tj = 25°C                 | 5.21 kW  |
| EER Tj = 25°C                 | 6.13     |
| Cdc Tj = 25 °C                | 0.99     |
| Pdc Tj = 20°C                 | 7.21 kW  |
| EER Tj = 20°C                 | 5.87     |
| Cdc Tj = 20 °C                | 0.99     |
| Poff                          | 22 W     |
| PTO                           | 22 W     |
| PSB                           | 22 W     |
| PCK                           | 0 W      |
| Annual energy consumption Qce | 1289 kWh |