

Subtype airH2O 400 Combi 4 6

| | |
|---------------------|---|
| Certificate Holder | Johnson Controls Hitachi Air-Conditioning Europe SAS |
| Address | Parc Aktiland II - 2, Rue de Lombardie |
| ZIP | 69800 |
| City | SAINT PRIEST |
| Country | FR |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | airH2O 400 Combi 4 6 |
| Registration number | 011-1W0843 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 0.98 kg |
| Certification Date | 18.07.2024 |
| Testing basis | HP KEYMARK certification scheme rules V14 |

Model HZKF04KSE-Q/HZKF04KW230E-Q

| | |
|-------------------------------------|----------------------------|
| Model name | HZKF04KSE-Q/HZKF04KW230E-Q |
| 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 | XL |
| Efficiency η_{DHW} | 135 % |
| COP | 3.32 |
| Heating up time | 1:58 h:min |
| Standby power input | 26.0 W |
| Reference hot water temperature | 46.0 °C |
| Mixed water at 40°C | 235 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 | 4.45 kW | 4.45 kW |
| El input | 0.84 kW | 1.46 kW |
| COP | 5.21 | 3.05 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_S | 201 % | 130 % |

| | | |
|---|-------------|-------------|
| Prated | 4.53 kW | 3.84 kW |
| SCOP | 5.10 | 3.33 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.01 kW | 3.40 kW |
| COP Tj = -7°C | 3.35 | 1.98 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 2.43 kW | 2.12 kW |
| COP Tj = +2°C | 5.00 | 3.37 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 1.71 kW | 1.41 kW |
| COP Tj = +7°C | 6.52 | 4.14 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 2.22 kW | 2.10 kW |
| COP Tj = 12°C | 11.22 | 8.16 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 4.01 kW | 3.40 kW |
| COP Tj = Tbiv | 3.35 | 1.98 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.38 kW | 3.70 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.65 | 1.71 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 60 °C | 60 °C |
| Poff | 8 W | 8 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.15 kW | 0.15 kW |
| Annual energy consumption Qhe | 1835 kWh | 2381 kWh |

Model HZKF06KSE-Q/HZKF06KW230E-Q

| | |
|-------------------------------------|----------------------------|
| Model name | HZKF06KSE-Q/HZKF06KW230E-Q |
| 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 | XL |
| Efficiency η_{DHW} | 136 % |
| COP | 3.32 |
| Heating up time | 1:58 h:min |
| Standby power input | 26.0 W |
| Reference hot water temperature | 46.0 °C |
| Mixed water at 40°C | 235 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 | 5.99 kW | 6.11 kW |
| El input | 1.13 kW | 1.96 kW |
| COP | 5.26 | 3.11 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 42 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_S | 198 % | 133 % |

| | | |
|---|-------------|-------------|
| Prated | 6.40 kW | 5.31 kW |
| SCOP | 5.03 | 3.41 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.66 kW | 4.70 kW |
| COP Tj = -7°C | 3.21 | 2.01 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 3.35 kW | 3.05 kW |
| COP Tj = +2°C | 4.88 | 3.37 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 2.05 kW | 1.99 kW |
| COP Tj = +7°C | 6.72 | 4.56 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 2.22 kW | 2.05 kW |
| COP Tj = 12°C | 11.22 | 7.43 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 5.66 kW | 4.70 kW |
| COP Tj = Tbiv | 3.21 | 2.01 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.29 kW | 4.56 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.69 | 1.80 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 60 °C | 60 °C |
| Poff | 11 W | 11 W |
| PTO | 10 W | 10 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.10 kW | 0.80 kW |
| Annual energy consumption Qhe | 2629 kWh | 3221 kWh |