| Subtype Heat pump-R290 KS-160* | |
|---|---|
| Certificate Holder | GZ AXEN Heat Pump Technology Co., Ltd. |
| Address | No.22, Lianyun Erheng Road, Shiqi Village, Shiqi Town, Panyu District |
| ZIP | 511450 |
| City | Guangzhou |
| Country | CN |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | Heat pump-R290 KS-160* |
| Registration number | 011-1W0795 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R290 |
| Mass of Refrigerant | 1.65 kg |
| Certification Date | 13.06.2024 |
| Testing basis | European KEYMARK Scheme for Heat Pumps Rev. 14 (as of 2024-04) |

| Model KS-160W/EN7BP | |
|---|---|
| Model name | KS-160W/EN7BP |
| Application | Heating (medium temp) |
| Units | 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 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 | 16.10 kW | 15.90 kW |
| El input | 3.39 kW | 5.60 kW |
| COP | 4.75 | 2.84 |

| EN 12102-1 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 62 dB(A) | 63 dB(A) |

| EN 14825 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 181 % | 133 % |
| Prated | 14.90 kW | 14.00 kW |
| SCOP | 4.63 | 3.40 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.24 kW | 12.39 kW |
| COP Tj = -7°C | 2.42 | 1.82 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 8.09 kW | 7.70 kW |
| COP Tj = +2°C | 4.59 | 3.39 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 5.71 kW | 5.18 kW |

| | | |
|---|---|---|
| COP Tj = +7°C | 6.32 | 4.73 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 4.52 kW | 3.49 kW |
| COP Tj = 12°C | 8.28 | 5.64 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| Pdh Tj = Tbiv | 13.24 kW | 12.39 kW |
| COP Tj = Tbiv | 2.42 | 1.82 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.07 kW | 11.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.22 | 1.90 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 75 °C | 75 °C |
| Poff | 9 W | 9 W |
| PTO | 30 W | 30 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.83 kW | 2.22 kW |
| Annual energy consumption Qhe | 6685 kWh | 8519 kWh |

| Model KS-160W/EN7SBP | |
|---|---|
| Model name | KS-160W/EN7SBP |
| Application | Heating (medium temp) |
| Units | 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 | 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 |
| Starting and operating test | passed |

| EN 14511-2 \| Heating | | |
|---|---|---|
| | Low temperature | Medium temperature |
| Heat output | 16.10 kW | 15.90 kW |
| El input | 3.39 kW | 5.60 kW |
| COP | 4.75 | 2.84 |

| EN 12102-1 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 62 dB(A) | 63 dB(A) |

| EN 14825 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 181 % | 133 % |
| Prated | 14.90 kW | 14.00 kW |
| SCOP | 4.63 | 3.40 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.24 kW | 12.39 kW |
| COP Tj = -7°C | 2.42 | 1.82 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 8.09 kW | 7.70 kW |
| COP Tj = +2°C | 4.59 | 3.39 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 5.71 kW | 5.18 kW |

| | | |
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| COP Tj = 12°C | 8.28 | 5.64 |
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| COP Tj = Tbiv | 2.42 | 1.82 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.07 kW | 11.78 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.22 | 1.90 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 75 °C | 75 °C |
| Poff | 9 W | 9 W |
| PTO | 30 W | 30 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.83 kW | 2.22 kW |
| Annual energy consumption Qhe | 6685 kWh | 8519 kWh |