

This information was generated by the HP KEYMARK database on 23 Jun 2022

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| | | | |
|---------------------|---|----------|-------------|
| Summary of | Intelligent Inverter Heat Pump 40 | Reg. No. | 041-K020-02 |
| Certificate Holder | | | |
| Name | Guangdong PHNIX Eco-Energy Solutions Ltd. | | |
| Address | No. 3 Tianyuan Road Dagang Town | Zip | 511470 |
| City | Guangdong | Country | China |
| Certification Body | BRE Global Limited | | |
| Subtype title | Intelligent Inverter Heat Pump 40 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass of Refrigerant | 1.8 kg | | |
| Certification Date | 01.11.2021 | | |
| Testing basis | Heat Pump Keymark Scheme Rules Rev 09 | | |

Model: PASRW040S-BP-PS-B

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | PASRW040S-BP-PS-B |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 9.85 kW | 9.03 kW |
| El input | 2.02 kW | 3.07 kW |
| COP | 4.88 | 2.94 |

| 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

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EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 60 dB(A) | 62 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 188 % | 135 % |
| Prated | 8.77 kW | 9.50 kW |
| SCOP | 4.76 | 3.43 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.76 kW | 8.41 kW |
| COP Tj = -7°C | 3.41 | 2.31 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 4.80 kW | 5.14 kW |
| COP Tj = +2°C | 4.43 | 3.21 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 4.28 kW | 4.24 kW |
| COP Tj = +7°C | 6.22 | 4.50 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 5.38 kW | 4.54 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 8.18 | 6.67 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| Pdh Tj = Tbiv | 7.76 kW | 8.41 kW |
| COP Tj = Tbiv | 3.41 | 2.31 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.94 kW | 7.74 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.00 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 55 °C | 55 °C |
| Poff | 12 W | 12 W |
| PTO | 12 W | 12 W |
| PSB | 12 W | 12 W |
| PCK | 59 W | 59 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.84 kW | 1.76 kW |
| Annual energy consumption Qhe | 3801 kWh | 5702 kWh |

Model: PASRW040-BP-PS-B

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | PASRW040-BP-PS-B |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 9.76 kW | 9.50 kW |
| El input | 2.11 kW | 3.91 kW |
| COP | 4.63 | 2.43 |

| 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 23 Jun 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 58 dB(A) | 60 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 190 % | 134 % |
| Prated | 8.78 kW | 9.51 kW |
| SCOP | 4.81 | 3.41 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.77 kW | 8.42 kW |
| COP Tj = -7°C | 3.41 | 2.30 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 4.79 kW | 5.17 kW |
| COP Tj = +2°C | 4.43 | 3.17 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 4.28 kW | 4.26 kW |
| COP Tj = +7°C | 6.22 | 4.39 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 4.94 kW | 4.74 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 8.64 | 6.67 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| Pdh Tj = Tbiv | 7.77 kW | 8.42 kW |
| COP Tj = Tbiv | 3.41 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.78 kW | 9.26 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.01 | 2.10 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 55 °C | 55 °C |
| Poff | 14 W | 14 W |
| PTO | 14 W | 14 W |
| PSB | 14 W | 14 W |
| PCK | 44 W | 44 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.26 kW |
| Annual energy consumption Qhe | 3769 kWh | 5760 kWh |