

This information was generated by the HP KEYMARK database on 18 Mar 2022

[Login](#)

| | | | |
|---------------------|---|----------|-------------|
| Summary of | BLW Split D 4 | Reg. No. | 21HK0031/00 |
| Certificate Holder | | | |
| Name | August Brötje GmbH | | |
| Address | August-Brötje-Str. 17 | Zip | 26180 |
| City | Rastede | Country | Germany |
| Certification Body | Kiwa Nederland B.V. | | |
| Subtype title | BLW Split D 4 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass of Refrigerant | 1.2 kg | | |
| Certification Date | 03.12.2021 | | |
| Testing basis | European KEYMARK Scheme for Heat Pumps (v9) | | |

Model: AWHPR 4 MR + BLWSI48MHD

| Configure model | |
|-------------------------------------|---------------------------|
| Model name | AWHPR 4 MR + BLWSI48MHD |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 4.60 kW | 4.40 kW |
| El input | 0.88 kW | 1.49 kW |
| COP | 5.20 | 2.95 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Cooling

This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 14511-2 | | |
|-------------------|-------------------|--------------------|
| | +7°C/+12°C | +18°C/+23°C |
| El input | 1.25 kW | 1.12 kW |
| Cooling capacity | 4.50 | 6.00 |
| EER | 3.60 | 5.35 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 14825 | | |
|---|-------------------|--------------------|
| | +7°C/+12°C | +18°C/+23°C |
| P _{designc} | 4.50 kW | 6.00 kW |
| SEER | 4.69 | 8.13 |
| P _{dc} T _j = 35°C | 4.50 kW | 6.00 kW |
| EER T _j = 35°C | 3.60 | 5.35 |
| P _{dc} T _j = 30°C | 3.32 kW | 4.50 kW |
| EER T _j = 30°C | 3.97 | 7.09 |
| P _{dc} T _j = 25°C | 2.30 kW | 2.80 kW |
| EER T _j = 25°C | 5.23 | 9.20 |
| P _{dc} T _j = 20°C | 1.85 kW | 2.85 kW |
| EER T _j = 20°C | 6.40 | 12.23 |
| P _{off} | 12 W | 12 W |
| PTO | 12 W | 12 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Q _{ce} | 576 kWh | 443 kWh |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 33 dB(A) | 33 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 135 % |
| Prated | 5.00 kW | 5.00 kW |
| SCOP | 4.50 | 3.44 |
| Tbiv | -10 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.40 kW | 4.50 kW |
| COP Tj = -7°C | 3.18 | 2.15 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |
| COP Tj = +2°C | 4.44 | 3.39 |
| Cdh Tj = +2 °C | 0.980 | 0.980 |
| Pdh Tj = +7°C | 1.75 kW | 1.74 kW |
| COP Tj = +7°C | 5.37 | 4.44 |
| Cdh Tj = +7 °C | 0.960 | 0.960 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|----------|
| Pdh Tj = 12°C | 2.70 kW | 2.10 kW |
| COP Tj = 12°C | 8.78 | 7.29 |
| Cdh Tj = +12 °C | 0.950 | 0.950 |
| Pdh Tj = Tbiv | 5.00 kW | 4.50 kW |
| COP Tj = Tbiv | 3.00 | 2.15 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.00 | 1.83 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 60 °C | 60 °C |
| Poff | 12 W | 12 W |
| PTO | 12 W | 12 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 2297 kWh | 3000 kWh |

Model: AWHPR 4 MR + BLWSI48OHD

| Configure model | |
|-------------------------------------|---------------------------|
| Model name | AWHPR 4 MR + BLWSI48OHD |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 4.60 kW | 4.40 kW |
| El input | 0.88 kW | 1.49 kW |
| COP | 5.20 | 2.95 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Cooling

| EN 14511-2 | | |
|-------------------|-------------------|--------------------|
| | +7°C/+12°C | +18°C/+23°C |
| El input | 1.25 kW | 1.12 kW |
| Cooling capacity | 4.50 | 6.00 |
| EER | 3.60 | 5.35 |

| EN 14825 | | |
|---|-------------------|--------------------|
| | +7°C/+12°C | +18°C/+23°C |
| P _{designc} | 4.50 kW | 6.00 kW |
| SEER | 4.69 | 8.13 |
| P _{dc} T _j = 35°C | 4.50 kW | 6.00 kW |
| EER T _j = 35°C | 3.60 | 5.35 |
| P _{dc} T _j = 30°C | 3.32 kW | 4.50 kW |
| EER T _j = 30°C | 3.97 | 7.09 |
| P _{dc} T _j = 25°C | 2.30 kW | 2.80 kW |
| EER T _j = 25°C | 5.23 | 9.20 |
| P _{dc} T _j = 20°C | 1.85 kW | 2.85 kW |
| EER T _j = 20°C | 6.40 | 12.23 |
| P _{off} | 12 W | 12 W |
| PTO | 12 W | 12 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Q _{ce} | 576 kWh | 443 kWh |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 33 dB(A) | 33 dB(A) |
| Sound power level outdoor | 58 dB(A) | 58 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 135 % |
| Prated | 5.00 kW | 5.00 kW |
| SCOP | 4.50 | 3.44 |
| Tbiv | -10 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.40 kW | 4.50 kW |
| COP Tj = -7°C | 3.18 | 2.15 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |
| COP Tj = +2°C | 4.44 | 3.39 |
| Cdh Tj = +2 °C | 0.980 | 0.980 |
| Pdh Tj = +7°C | 1.75 kW | 1.74 kW |
| COP Tj = +7°C | 5.37 | 4.44 |
| Cdh Tj = +7 °C | 0.960 | 0.960 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|----------|
| Pdh Tj = 12°C | 2.70 kW | 2.10 kW |
| COP Tj = 12°C | 8.78 | 7.29 |
| Cdh Tj = +12 °C | 0.950 | 0.950 |
| Pdh Tj = Tbiv | 5.00 kW | 4.50 kW |
| COP Tj = Tbiv | 3.00 | 2.15 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.00 | 1.83 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 60 °C | 60 °C |
| Poff | 12 W | 12 W |
| PTO | 12 W | 12 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 2297 kWh | 3000 kWh |