

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

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| | | | |
|---------------------|---|----------|-------------|
| Summary of | CHAPPEE MONO AWHP 11 | Reg. No. | 037-0043-20 |
| Certificate Holder | | | |
| Name | BDR Thermea FR (CHAPPEE) | | |
| Address | 57 rue de la Gare | Zip | 67580 |
| City | Mertzwiller | Country | France |
| Certification Body | SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise) | | |
| Subtype title | CHAPPEE MONO AWHP 11 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 3.3 kg | | |
| Certification Date | 30.01.2020 | | |
| Testing basis | HP Keymark scheme rules rev. no. 7 | | |

Model: MONO AWHP 11 MR

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | MONO AWHP 11 MR |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 11.20 kW | 11.20 kW |
| El input | 2.47 kW | 4.15 kW |
| COP | 4.54 | 2.70 |

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

Average Climate

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EN 12102-1

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

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 174 % | 135 % |
| Prated | 10.00 kW | 10.00 kW |
| SCOP | 4.41 | 3.44 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 8.90 kW | 9.00 kW |
| COP Tj = -7°C | 3.17 | 1.99 |
| Cdh Tj = -7 °C | 0.995 | 0.997 |
| Pdh Tj = +2°C | 5.40 kW | 5.70 kW |
| COP Tj = +2°C | 4.23 | 3.30 |
| Cdh Tj = +2 °C | 0.988 | 0.991 |
| Pdh Tj = +7°C | 3.60 kW | 4.70 kW |
| COP Tj = +7°C | 5.33 | 4.86 |
| Cdh Tj = +7 °C | 0.978 | 0.984 |
| Pdh Tj = 12°C | 4.30 kW | 4.10 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 7.66 | 6.35 |
| Cdh Tj = +12 °C | 0.973 | 0.977 |
| Pdh Tj = Tbiv | 8.90 kW | 9.00 kW |
| COP Tj = Tbiv | 3.17 | 1.99 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW | 8.42 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 1.87 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.970 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.65 kW | 1.58 kW |
| Annual energy consumption Qhe | 4681 kWh | 5998 kWh |

Model: MONO AWHP 11 TR

Configure model

| | |
|-------------------------------------|-----------------------|
| Model name | MONO AWHP 11 TR |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

General Data

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

Heating

EN 14511-2

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 11.20 kW | 11.20 kW |
| El input | 2.47 kW | 4.15 kW |
| COP | 4.54 | 2.70 |

EN 14511-4

| Shutting off the heat transfer medium flow | passed |
|--|--------|
| Complete power supply failure | passed |
| Defrost test | passed |

Average Climate

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

EN 12102-1

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

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 173 % | 134 % |
| Prated | 10.00 kW | 10.00 kW |
| SCOP | 4.40 | 3.44 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 8.90 kW | 9.00 kW |
| COP Tj = -7°C | 3.17 | 1.99 |
| Cdh Tj = -7 °C | 0.992 | 0.995 |
| Pdh Tj = +2°C | 5.40 kW | 5.70 kW |
| COP Tj = +2°C | 4.23 | 3.29 |
| Cdh Tj = +2 °C | 0.983 | 0.987 |
| Pdh Tj = +7°C | 3.60 kW | 4.70 kW |
| COP Tj = +7°C | 5.31 | 4.88 |
| Cdh Tj = +7 °C | 0.968 | 0.977 |
| Pdh Tj = 12°C | 4.30 kW | 4.10 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 7.66 | 6.35 |
| Cdh Tj = +12 °C | 0.961 | 0.966 |
| Pdh Tj = Tbiv | 8.90 kW | 9.00 kW |
| COP Tj = Tbiv | 3.17 | 1.99 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW | 8.42 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 1.87 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.950 | 0.960 |
| WTOL | 60 °C | 60 °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 | 1.65 kW | 1.58 kW |
| Annual energy consumption Qhe | 4693 kWh | 6012 kWh |