## Subtype DE DIETRICH ALEZIO S R 32 HYBRID GAZ 6/8 MR

| | |
|---|---|
| Certificate Holder | BDR Thermea FR (DE DIETRICH) |
| Address | 57 rue de la Gare |
| ZIP | 67580 |
| City | Mertzwiller |
| Country | FR |
| Certification Body | Kiwa Nederland B.V. |
| Subtype title | DE DIETRICH ALEZIO S R 32 HYBRID GAZ 6/8 MR |
| Registration number | 007-DP0182 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 1.2 kg |
| Certification Date | 08.03.2024 |
| Testing basis | European KEYMARK Scheme for Heat Pumps (v9) |

| Model AWHPR 6 MR + MIV-S 4-8/H R32 + MCR 2 30 MI | |
|---|---|
| Model name | AWHPR 6 MR + MIV-S 4-8/H R32 + MCR 2 30 MI |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C, +18°C/+23°C |
| Any additional heat sources | n/a |

| General data | |
|---|---|
| Power supply | 1x230V 50Hz |
| Off-peak product | No |

| 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 | 6.40 kW | 5.70 kW |
| El input | 1.28 kW | 1.97 kW |
| COP | 5.00 | 2.90 |

| EN 14511-2 \| Cooling | | |
|---|---|---|
| | +7°C/+12°C | +18°C/+23°C |
| El input | 2.10 kW | 1.36 kW |
| Cooling capacity | 6.50 | 7.00 |
| EER | 3.09 | 5.14 |

| EN 12102-1 \| Average Climate | | |
|---|---|---|
| | 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 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 178 % | 132 % |
| Prated | 6.50 kW | 6.00 kW |
| SCOP | 4.52 | 3.38 |
| Tbiv | -10 °C | -7 °C |

| | | |
|---|---|---|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.90 kW | 5.50 kW |
| COP Tj = -7°C | 3.16 | 2.22 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 3.50 kW | 3.40 kW |
| COP Tj = +2°C | 4.48 | 3.37 |
| Cdh Tj = +2 °C | 0.980 | 0.980 |
| Pdh Tj = +7°C | 2.25 kW | 2.10 kW |
| COP Tj = +7°C | 5.61 | 4.07 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.50 kW | 2.50 kW |
| COP Tj = 12°C | 6.92 | 6.58 |
| Cdh Tj = +12 °C | 0.960 | 0.970 |
| Pdh Tj = Tbiv | 6.60 kW | 5.50 kW |
| COP Tj = Tbiv | 2.68 | 2.22 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.60 kW | 5.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.68 | 1.82 |
| 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 | 2974 kWh | 3667 kWh |

## EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 207 % | 141 % |
| Prated | 6.50 kW | 6.00 kW |
| SCOP | 5.24 | 3.61 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.50 kW | 6.00 kW |
| COP Tj = +2°C | 3.40 | 2.27 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 4.30 kW | 4.05 kW |
| COP Tj = +7°C | 5.30 | 3.16 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |
| Pdh Tj = 12°C | 1.86 kW | 1.90 kW |
| COP Tj = 12°C | 6.07 | 4.70 |
| Cdh Tj = +12 °C | 0.95 | 0.96 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 6.50 kW | 6.00 kW |
| COP Tj = Tbiv | 3.40 | 2.27 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.50 kW | 6.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.40 | 2.27 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| 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: PSUP | 0 kW | 0 kW |
| Annual energy consumption Qhe | 1658 kWh | 2222 kWh |

| EN 14825 \| Cooling | | |
|---|---|---|
| | +7°C/+12°C | +18°C/+23°C |
| Pdesignc | 6.50 kW | 7.00 kW |
| SEER | 4.01 | 6.49 |
| Pdc Tj = 35°C | 6.50 kW | 7.00 kW |
| EER Tj = 35°C | 3.09 | 5.14 |
| Pdc Tj = 30°C | 4.90 kW | 5.39 kW |
| EER Tj = 30°C | 3.99 | 6.65 |
| Pdc Tj = 25°C | 3.10 kW | 3.32 kW |
| EER Tj = 25°C | 4.55 | 4.93 |
| Pdc Tj = 20°C | 1.37 kW | 1.78 kW |
| EER Tj = 20°C | 3.96 | 12.82 |
| Poff | 12 W | 12 W |
| PTO | 12 W | 12 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 973 kWh | 647 kWh |

| Model AWHPR 8 MR + MIV-S 4-8/H R32 + MCR 2 30 MI | |
|---|---|
| Model name | AWHPR 8 MR + MIV-S 4-8/H R32 + MCR 2 30 MI |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C, +18°C/+23°C |
| Any additional heat sources | n/a |

| General data | |
|---|---|
| Power supply | 1x230V 50Hz |
| Off-peak product | No |

| 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 | 7.60 kW | 8.00 kW |
| El input | 1.59 kW | 2.91 kW |
| COP | 4.77 | 2.75 |

| EN 14511-2 \| Cooling | | |
|---|---|---|
| | +7°C/+12°C | +18°C/+23°C |
| El input | 2.15 kW | 1.45 kW |
| Cooling capacity | 6.50 | 7.10 |
| EER | 3.02 | 4.88 |

| EN 12102-1 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| Sound power level indoor | 33 dB(A) | 33 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

| EN 14825 \| Average Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 177 % | 131 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 4.50 | 3.34 |
| Tbiv | -7 °C | -7 °C |

| | | |
|---|---|---|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.19 kW | 6.19 kW |
| COP Tj = -7°C | 2.97 | 2.09 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 4.12 kW | 3.79 kW |
| COP Tj = +2°C | 4.46 | 3.24 |
| Cdh Tj = +2 °C | 0.980 | 0.990 |
| Pdh Tj = +7°C | 2.78 kW | 2.49 kW |
| COP Tj = +7°C | 5.70 | 4.57 |
| Cdh Tj = +7 °C | 0.970 | 0.970 |
| Pdh Tj = 12°C | 2.67 kW | 2.55 kW |
| COP Tj = 12°C | 7.80 | 6.10 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 6.19 kW | 6.19 kW |
| COP Tj = Tbiv | 2.97 | 2.09 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.64 kW | 4.90 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.58 | 1.66 |
| 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 | 0.36 kW | 2.10 kW |
| Annual energy consumption Qhe | 3213 kWh | 4334 kWh |

| EN 14825 \| Warmer Climate | | |
|---|---|---|
| | Low temperature | Medium temperature |
| ηs | 214 % | 149 % |
| Prated | 7.00 kW | 6.60 kW |
| SCOP | 5.41 | 3.81 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.00 kW | 6.60 kW |
| COP Tj = +2°C | 3.25 | 2.12 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 4.70 kW | 4.58 kW |
| COP Tj = +7°C | 5.11 | 3.36 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.11 kW | 2.00 kW |
| COP Tj = 12°C | 6.71 | 5.00 |
| Cdh Tj = +12 °C | 0.95 | 0.96 |

| | | |
|---|---|---|
| Pdh Tj = Tbiv | 7.00 kW | 6.60 kW |
| COP Tj = Tbiv | 3.25 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 6.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.25 | 2.12 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 10.6 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Qhe | 1728 kWh | 2315 kWh |

| EN 14825 \| Cooling | | |
|---|---|---|
| | +7°C/+12°C | +18°C/+23°C |
| Pdesignc | 6.50 kW | 7.10 kW |
| SEER | 4.43 | 5.89 |
| Pdc Tj = 35°C | 6.50 kW | 7.10 kW |
| EER Tj = 35°C | 3.02 | 4.88 |
| Pdc Tj = 30°C | 4.97 kW | 5.65 kW |
| EER Tj = 30°C | 4.12 | 6.81 |
| Pdc Tj = 25°C | 3.35 kW | 3.18 kW |
| EER Tj = 25°C | 4.74 | 5.26 |
| Pdc Tj = 20°C | 1.55 kW | 1.67 kW |
| EER Tj = 20°C | 5.50 | 7.40 |
| Poff | 12 W | 12 W |
| PTO | 12 W | 12 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 881 kWh | 723 kWh |