

Subtype ALYA WH 4

| | |
|---------------------|---|
| Certificate Holder | BAXI S.p.A. |
| Address | Via Trozzetti, 20 |
| ZIP | |
| City | Bassano del Grappa (VI) |
| Country | IT |
| Certification Body | Kiwa Nederland B.V. |
| Subtype title | ALYA WH 4 |
| Registration number | 21HK0029/00 |
| 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 + SYSMGR ALYA 4-8M E WH

| | |
|-------------------------------------|------------------------------------|
| Model name | AWHPR 4 MR + SYSMGR ALYA 4-8M E WH |
| 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 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 |
|-----------------|-----------------|--------------------|
| 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 |
| 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 $T_j = T_{biv}$ | 3.00 | 2.15 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.00 kW | 4.30 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 3.00 | 1.83 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.990 | 0.990 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 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 Q _{he} | 2297 kWh | 3000 kWh |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 234 % | 163 % |
| Prated | 5.00 kW | 5.00 kW |
| SCOP | 5.94 | 4.16 |
| T_{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| $P_{dh} T_j = +2^\circ\text{C}$ | 5.00 kW | 5.00 kW |
| COP $T_j = +2^\circ\text{C}$ | 3.51 | 2.42 |
| $C_{dh} T_j = +2^\circ\text{C}$ | 0.99 | 0.99 |
| $P_{dh} T_j = +7^\circ\text{C}$ | 3.30 kW | 3.30 kW |
| COP $T_j = +7^\circ\text{C}$ | 5.65 | 3.67 |
| $C_{dh} T_j = +7^\circ\text{C}$ | 0.98 | 0.98 |
| $P_{dh} T_j = 12^\circ\text{C}$ | 2.10 kW | 1.90 kW |
| COP $T_j = 12^\circ\text{C}$ | 7.94 | 5.67 |
| $C_{dh} T_j = +12^\circ\text{C}$ | 0.95 | 0.96 |
| $P_{dh} T_j = T_{biv}$ | 5.00 kW | 5.00 kW |
| COP $T_j = T_{biv}$ | 3.51 | 2.42 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.00 kW | 5.00 kW |
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| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.99 | 0.99 |
| WTOL | 60 °C | 60 °C |
| P _{off} | 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 Q_{he}

1125 kWh

1607 kWh

Model AWHPR 4 MR + SYSMGR ALYA 4-8M H WH

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