Login

| Summary of | ALYA 4M FS | Reg. No. | 21HK0015/00 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | BAXI S.p.A. | | |
| Address | Via Trozzetti, 20 | Zip | |
| City | Bassano del Grappa (VI) | Country | Italy |
| Certification Body | Kiwa Nederland B.V. | | |
| Subtype title | ALYA 4M FS | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass of Refrigerant | 1.2 kg | | |
| Certification Date | 12.11.2021 | | |
| Testing basis | European KEYMARK Scheme for Heat Pumps (v9) | | |

# Model: AWHP 4 MR + SYSMGR ALYA 4-8M E FS

| Configure model | |
|---|---|
| Model name | AWHP 4 MR + SYSMGR ALYA 4-8M E FS |
| Application | Heating + DHW + low 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 | 4.10 kW |
| El input | 0.88 kW | 1.55 kW |
| COP | 5.20 | 2.65 |

| 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 | 1.33 kW | 1.16 kW |
| Cooling capacity | 4.50 | 6.00 |
| EER | 3.39 | 5.18 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 4.50 kW | 6.00 kW |
| SEER | 4.61 | 7.99 |
| Pdc Tj = 35°C | 4.50 kW | 6.00 kW |
| EER Tj = 35°C | 3.39 | 5.18 |
| Pdc Tj = 30°C | 3.32 kW | 4.50 kW |
| EER Tj = 30°C | 3.97 | 7.09 |
| Cdc | 0.990 | 0.980 |
| Pdc Tj = 25°C | 2.30 kW | 2.80 kW |
| EER Tj = 25°C | 5.23 | 9.20 |
| Cdc | 0.980 | 0.950 |
| Pdc Tj = 20°C | 1.85 kW | 2.85 kW |
| EER Tj = 20°C | 6.40 | 12.23 |
| Cdc | 0.950 | 0.940 |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 586 kWh | 450 kWh |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 56 dB(A) | 56 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 176 % | 134 % |
| Prated | 5.00 kW | 5.00 kW |
| SCOP | 4.48 | 3.43 |
| 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 | 0.990 | 0.990 |
| Pdh Tj = +7°C | 1.75 kW | 1.74 kW |
| COP Tj = +7°C | 5.37 | 4.44 |
| Cdh Tj = +7 °C | 0.970 | 0.970 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 2.70 kW | 2.10 kW |
| COP Tj = 12°C | 8.78 | 7.29 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| 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 | 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 | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 2305 kWh | 3009 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 133 % |
| COP | 3.17 |
| Heating up time | 1:37 h:min |
| Standby power input | 27.9 W |
| Reference hot water temperature | 53.8 °C |
| Mixed water at 40°C | 255 l |

# Model: AWHP 4 MR + SYSMGR ALYA 4-8M H FS

| Configure model | |
|---|---|
| Model name | AWHP 4 MR + SYSMGR ALYA 4-8M H FS |
| Application | Heating + DHW + low 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 | n/a |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.60 kW | 4.10 kW |
| El input | 0.88 kW | 1.55 kW |
| COP | 5.20 | 2.65 |

| 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 | 1.33 kW | 1.16 kW |
| Cooling capacity | 4.50 | 6.00 |
| EER | 3.39 | 5.18 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 4.50 kW | 6.00 kW |
| SEER | 4.61 | 7.99 |
| Pdc Tj = 35°C | 4.50 kW | 6.00 kW |
| EER Tj = 35°C | 3.39 | 5.18 |
| Pdc Tj = 30°C | 3.32 kW | 4.50 kW |
| EER Tj = 30°C | 3.97 | 7.09 |
| Cdc | 0.990 | 0.980 |
| Pdc Tj = 25°C | 2.30 kW | 2.80 kW |
| EER Tj = 25°C | 5.23 | 9.20 |
| Cdc | 0.980 | 0.950 |
| Pdc Tj = 20°C | 1.85 kW | 2.85 kW |
| EER Tj = 20°C | 6.40 | 12.23 |
| Cdc | 0.950 | 0.940 |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 586 kWh | 450 kWh |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 56 dB(A) | 56 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 176 % | 134 % |
| Prated | 5.00 kW | 5.00 kW |
| SCOP | 4.48 | 3.43 |
| 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 | 0.990 | 0.990 |
| Pdh Tj = +7°C | 1.75 kW | 1.74 kW |
| COP Tj = +7°C | 5.37 | 4.44 |
| Cdh Tj = +7 °C | 0.970 | 0.970 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 2.70 kW | 2.10 kW |
| COP Tj = 12°C | 8.78 | 7.29 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| 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 | 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 | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 2305 kWh | 3009 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | L |
| Efficiency ηDHW | 133 % |
| COP | 3.17 |
| Heating up time | 1:37 h:min |
| Standby power input | 27.9 W |
| Reference hot water temperature | 53.8 °C |
| Mixed water at 40°C | 255 l |

# Model: AWHP 4 MR + SYSMGR ALYA 4-8M E FS

| Configure model | |
|---|---|
| Model name | AWHP 4 MR + SYSMGR ALYA 4-8M E FS |
| Application | Heating + DHW + low 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 | n/a |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.60 kW | 4.10 kW |
| El input | 0.88 kW | 1.55 kW |
| COP | 5.20 | 2.65 |

| 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 | 1.33 kW | 1.16 kW |
| Cooling capacity | 4.50 | 6.00 |
| EER | 3.39 | 5.18 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 4.50 kW | 6.00 kW |
| SEER | 4.61 | 7.99 |
| Pdc Tj = 35°C | 4.50 kW | 6.00 kW |
| EER Tj = 35°C | 3.39 | 5.18 |
| Pdc Tj = 30°C | 3.32 kW | 4.50 kW |
| EER Tj = 30°C | 3.97 | 7.09 |
| Cdc | 0.990 | 0.980 |
| Pdc Tj = 25°C | 2.30 kW | 2.80 kW |
| EER Tj = 25°C | 5.23 | 9.20 |
| Cdc | 0.980 | 0.950 |
| Pdc Tj = 20°C | 1.85 kW | 2.85 kW |
| EER Tj = 20°C | 6.40 | 12.23 |
| Cdc | 0.950 | 0.940 |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 586 kWh | 450 kWh |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 56 dB(A) | 56 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 176 % | 134 % |
| Prated | 5.00 kW | 5.00 kW |
| SCOP | 4.48 | 3.43 |
| 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 | 0.990 | 0.990 |
| Pdh Tj = +7°C | 1.75 kW | 1.74 kW |
| COP Tj = +7°C | 5.37 | 4.44 |
| Cdh Tj = +7 °C | 0.970 | 0.970 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 2.70 kW | 2.10 kW |
| COP Tj = 12°C | 8.78 | 7.29 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| 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 | 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 | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 2305 kWh | 3009 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | M |
| Efficiency ηDHW | 127 % |
| COP | 2.98 |
| Heating up time | 1:39 h:min |
| Standby power input | 20.9 W |
| Reference hot water temperature | 53.8 °C |
| Mixed water at 40°C | 260 l |

# Model: AWHP 4 MR + SYSMGR ALYA 4-8M H FS

| Configure model | |
|---|---|
| Model name | AWHP 4 MR + SYSMGR ALYA 4-8M H FS |
| Application | Heating + DHW + low 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 | n/a |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.60 kW | 4.10 kW |
| El input | 0.88 kW | 1.55 kW |
| COP | 5.20 | 2.65 |

| 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 | 1.33 kW | 1.16 kW |
| Cooling capacity | 4.50 | 6.00 |
| EER | 3.39 | 5.18 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 4.50 kW | 6.00 kW |
| SEER | 4.61 | 7.99 |
| Pdc Tj = 35°C | 4.50 kW | 6.00 kW |
| EER Tj = 35°C | 3.39 | 5.18 |
| Pdc Tj = 30°C | 3.32 kW | 4.50 kW |
| EER Tj = 30°C | 3.97 | 7.09 |
| Cdc | 0.990 | 0.980 |
| Pdc Tj = 25°C | 2.30 kW | 2.80 kW |
| EER Tj = 25°C | 5.23 | 9.20 |
| Cdc | 0.980 | 0.950 |
| Pdc Tj = 20°C | 1.85 kW | 2.85 kW |
| EER Tj = 20°C | 6.40 | 12.23 |
| Cdc | 0.950 | 0.940 |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 586 kWh | 450 kWh |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 29 dB(A) | 29 dB(A) |
| Sound power level outdoor | 56 dB(A) | 56 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 176 % | 134 % |
| Prated | 5.00 kW | 5.00 kW |
| SCOP | 4.48 | 3.43 |
| 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 | 0.990 | 0.990 |
| Pdh Tj = +7°C | 1.75 kW | 1.74 kW |
| COP Tj = +7°C | 5.37 | 4.44 |
| Cdh Tj = +7 °C | 0.970 | 0.970 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 2.70 kW | 2.10 kW |
| COP Tj = 12°C | 8.78 | 7.29 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| 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 | 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 | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 2305 kWh | 3009 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | M |
| Efficiency ηDHW | 127 % |
| COP | 2.98 |
| Heating up time | 1:39 h:min |
| Standby power input | 20.9 W |
| Reference hot water temperature | 53.8 °C |
| Mixed water at 40°C | 260 l |