

This information was generated by the HP KEYMARK database on 23 Jun 2022

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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**

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	1.33 kW	1.16 kW
Cooling capacity	4.50	6.00
EER	3.39	5.18

**EN 14825**

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	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	4.50 kW	6.00 kW
SEER	4.61	7.99
P <sub>dc</sub> T <sub>j</sub> = 35°C	4.50 kW	6.00 kW
EER T <sub>j</sub> = 35°C	3.39	5.18
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.32 kW	4.50 kW
EER T <sub>j</sub> = 30°C	3.97	7.09
C <sub>dc</sub>	0.990	0.980
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.30 kW	2.80 kW
EER T <sub>j</sub> = 25°C	5.23	9.20
C <sub>dc</sub>	0.980	0.950
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.85 kW	2.85 kW
EER T <sub>j</sub> = 20°C	6.40	12.23
C <sub>dc</sub>	0.950	0.940
P <sub>off</sub>	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	586 kWh	450 kWh

## Average Climate

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### 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

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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

This information was generated by the HP KEYMARK database on 23 Jun 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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



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### 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

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	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	4.50 kW	6.00 kW
SEER	4.61	7.99
P <sub>dc</sub> T <sub>j</sub> = 35°C	4.50 kW	6.00 kW
EER T <sub>j</sub> = 35°C	3.39	5.18
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.32 kW	4.50 kW
EER T <sub>j</sub> = 30°C	3.97	7.09
C <sub>dc</sub>	0.990	0.980
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.30 kW	2.80 kW
EER T <sub>j</sub> = 25°C	5.23	9.20
C <sub>dc</sub>	0.980	0.950
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.85 kW	2.85 kW
EER T <sub>j</sub> = 20°C	6.40	12.23
C <sub>dc</sub>	0.950	0.940
P <sub>off</sub>	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	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

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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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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

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P <sub>dc</sub> T <sub>j</sub> = 35°C	4.50 kW	6.00 kW
EER T <sub>j</sub> = 35°C	3.39	5.18
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.32 kW	4.50 kW
EER T <sub>j</sub> = 30°C	3.97	7.09
C <sub>dc</sub>	0.990	0.980
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.30 kW	2.80 kW
EER T <sub>j</sub> = 25°C	5.23	9.20
C <sub>dc</sub>	0.980	0.950
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.85 kW	2.85 kW
EER T <sub>j</sub> = 20°C	6.40	12.23
C <sub>dc</sub>	0.950	0.940
P <sub>off</sub>	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	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
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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

<b>EN 16147</b>	
Declared load profile	M
Efficiency $\eta_{DHW}$	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
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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

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EER T <sub>j</sub> = 25°C	5.23	9.20
C <sub>dc</sub>	0.980	0.950
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.85 kW	2.85 kW
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P <sub>off</sub>	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	586 kWh	450 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
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	Low temperature	Medium temperature
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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
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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



This information was generated by the HP KEYMARK database on 23 Jun 2022

<b>EN 16147</b>	
Declared load profile	M
Efficiency $\eta_{DHW}$	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