

Page 1 of 17

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

Login

Summary of	ALYA 4.5M E FS Slim	Reg. No.	21HK0007/00	
Certificate Holder				
Name	BAXI S.p.A.	BAXI S.p.A.		
Address	Via Trozzetti, 20	Zip		
City	Bassano del Grappa (VI)	Country	Italy	
Certification Body	Kiwa Nederland B.V.	Kiwa Nederland B.V.		
Subtype title	ALYA 4.5M E FS Slim	ALYA 4.5M E FS Slim		
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	1.2 kg			
Certification Date	22.10.2021			
Testing basis	European KEYMARK Scheme for Heat Pumps (v9)			



Model: AWHPR 4 MR + SYSMGR FS Slim 4.5-8MRE

Configure model		
Model name AWHPR 4 MR + SYSMGR FS Slim 4.5-8MRE		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
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	
СОР	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	

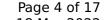
Cooling





EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	1.25 kW	1.12 kW	
Cooling capacity	4.50	6.00	
EER	3.60	5.35	

EN 14825





This information was generated by the HP KEYMARK database on 18 Mar 2022 +7°C/+12°C +18°C/+23°C 4.50 kW 6.00 kW **Pdesignc SEER** 4.64 8.02 $Pdc Tj = 35^{\circ}C$ 4.50 kW 6.00 kW 3.60 EER Tj = 35°C 5.35 $Pdc Tj = 30^{\circ}C$ 3.32 kW 4.50 kW EER Tj = 30°C 7.09 3.97 Cdc $Pdc Tj = 25^{\circ}C$ 2.30 kW 2.80 kW 5.23 9.20 EER Tj = 25°C Cdc $Pdc Tj = 20^{\circ}C$ 1.85 kW 2.85 kW EER Tj = 20°C 6.40 12.23 Cdc Poff 15 W 15 W PTO 15 W 15 W **PSB** 15 W 15 W **PCK** 0 W 0 W

Average Climate

Annual energy consumption Qce

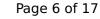
582 kWh

449 kWh



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	32 dB(A)	32 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{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	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.96	0.96





2.70 kW	2.10 kW
8.78	7.29
0.95	0.95
5.00 kW	4.50 kW
3.00	2.15
5.00 kW	4.30 kW
3.00	1.83
0.99	0.99
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
0 kW	0.7 kW
2305 kWh	3009 kWh
	8.78 0.95 5.00 kW 3.00 5.00 kW 3.00 0.99 60 °C 15 W 15 W 0 W Electricity 0 kW

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_{S}	234 %	163 %





This information was genera	The transfer of the transfer o	The database on 10 Mai 2022
Prated	5.00 kW	5.00 kW
SCOP	5.94	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	5.00 kW	5.00 kW
COP Tj = +2°C	3.51	2.42
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	3.30 kW	3.30 kW
$COP Tj = +7^{\circ}C$	5.65	3.67
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.10 kW	1.90 kW
COP Tj = 12°C	7.94	5.67
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	3.51	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	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 kW	0 kW
Annual energy consumption Qhe	1125 kWh	1607 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	32 dB(A)	32 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	139 %	
СОР	3.30	
Heating up time	1:35 h:min	
Standby power input	31.8 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	279	



Warmer Climate

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

EN 16147		
Declared load profile	L	
Efficiency ηDHW	169 %	
СОР	4.00	
Heating up time	1:35 h:min	
Standby power input	28.9 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	279	



Model: AWHPR 4 MR + SYSMGR FS Slim 4.5-8MRE

Configure model		
Model name	AWHPR 4 MR + SYSMGR FS Slim 4.5-8MRE	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

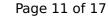
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.60 kW	4.10 kW
El input	0.88 kW	1.55 kW
СОР	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	1.25 kW	1.12 kW
Cooling capacity	4.50	6.00
EER	3.60	5.35



EN 14825		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.50 kW	6.00 kW
SEER	4.64	8.02
Pdc Tj = 35°C	4.50 kW	6.00 kW
EER Tj = 35°C	3.60	5.35
Pdc Tj = 30°C	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Pdc Tj = 20°C	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	582 kWh	449 kWh

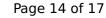
Average Climate



 $$\operatorname{\textit{Page}}\ 13$$ of 17 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	32 dB(A)	32 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{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	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.96	0.96

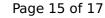




Pdh Tj = 12°C	2.70 kW	2.10 kW
COP Tj = 12°C	8.78	7.29
Cdh Tj = +12 °C	0.95	0.95
Pdh Tj = Tbiv	5.00 kW	4.50 kW
COP Tj = Tbiv	3.00	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0.7 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Warmer Climate

EN 14825			
	Low temperature	Medium temperature	
η_s	234 %	163 %	





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Prated	5.00 kW	5.00 kW
SCOP	5.94	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2^{\circ}$ C	5.00 kW	5.00 kW
$COPTj = +2^{\circ}C$	3.51	2.42
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	3.30 kW	3.30 kW
$COPTj = +7^{\circ}C$	5.65	3.67
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.10 kW	1.90 kW
COP Tj = 12°C	7.94	5.67
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	3.51	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W



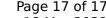
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1125 kWh	1607 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	M	
Efficiency ηDHW	131 %	
СОР	3.00	
Heating up time	1:35 h:min	
Standby power input	29.9 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	279	

Warmer Climate





$$\operatorname{\textit{Page}}\ 17$$ of 17 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	169 %	
СОР	4.00	
Heating up time	1:35 h:min	
Standby power input	28.9 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	279	