

# **Subtype: AIM06**

Summary of	AIM06	Reg. No.	ICIM-PDC-000011-01
Certificate Holder			
Name	Argoclima S.p.A		
Address	Via Alfeno Varo, 35	Zip	25020
City	Alfianello (BS)	Country	Italy
Certification Body	ICIM S.p.A.		
Subtype title	AIM06		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.3 kg		
Certification Date	10.10.2018		



#### **Model: AIM06EMX**

Configure model			
Model name	AIM06EMX		
Application	Heating + DHW + low temp		
Units	Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.80 kW	4.16 kW	
El input	1.41 kW	1.97 kW	
СОР	4.12	2.11	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

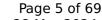
EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	153 %	111 %	
Prated	4.73 kW	3.51 kW	
SCOP	3.89	2.85	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	4.18 kW	3.10 kW	
COP Tj = -7°C	2.47	1.70	
Pdh Tj = +2°C	2.49 kW	1.95 kW	
COP Tj = +2°C	3.79	2.85	
Pdh Tj = +7°C	1.66 kW	1.43 kW	
COP Tj = +7°C	5.21	3.85	
Pdh Tj = 12°C	1.16 kW	1.29 kW	
COP Tj = 12°C	6.39	5.24	
Pdh Tj = Tbiv	4.18 kW	3.10 kW	
COP Tj = Tbiv	2.47	1.70	

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.62 kW	2.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.11 kW	1.32 kW
Annual energy consumption Qhe	2509 kWh	2546 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	91 %	
СОР	2.18	
Heating up time	4:04 h:min	
Standby power input	54.3 W	
Reference hot water temperature	46.7 °C	
Mixed water at 40°C	364 I	



# **Subtype: AIM08**

Summary of	AIM08	Reg. No.	ICIM-PDC-000012-01	
Certificate Holder				
Name	Argoclima S.p.A			
Address	Via Alfeno Varo, 35	Zip	25020	
City	Alfianello (BS)	Country	Italy	
Certification Body	ICIM S.p.A.			
Subtype title	AIM08			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	1.46 kg			
Certification Date	10.10.2018			

#### **Model: AIM08EMX**

Configure model			
Model name	AIM08EMX		
Application	Heating + DHW + low temp		
Units	Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data		
Power supply	1x230V 50Hz	

#### Heating

#### EN 14511-2

	Low temperature	Medium temperature
Heat output	8.08 kW	5.87 kW
El input	1.93 kW	2.71 kW
СОР	4.19	2.17

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
Low temperature Medium temperature		
Sound power level outdoor	69 dB(A)	69 dB(A)

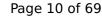
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	159 %	113 %
Prated	6.51 kW	5.50 kW
SCOP	4.05	2.91
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.76 kW	4.87 kW
COP Tj = -7°C	2.83	1.83
Pdh Tj = +2°C	3.54 kW	3.02 kW
COP Tj = +2°C	3.82	2.85
Pdh Tj = +7°C	2.27 kW	1.85 kW
COP Tj = +7°C	5.29	3.67
Pdh Tj = 12°C	1.52 kW	1.48 kW
COP Tj = 12°C	6.45	5.63
Pdh Tj = Tbiv	5.76 kW	4.87 kW
COP Tj = Tbiv	2.83	1.83

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.42 kW	3.97 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	1.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.09 kW	1.53 kW
Annual energy consumption Qhe	3326 kWh	3904 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	94 %	
СОР	2.25	
Heating up time	3:41 h:min	
Standby power input	53.2 W	
Reference hot water temperature	46.7 °C	
Mixed water at 40°C	364 I	



# **Subtype: AIM11**

Summary of	AIM11	Reg. No.	ICIM-PDC-000013-01	
Certificate Holder				
Name	Argoclima S.p.A	Argoclima S.p.A		
Address	Via Alfeno Varo, 35	Zip	25020	
City	Alfianello (BS)	Country	Italy	
Certification Body	ICIM S.p.A.	ICIM S.p.A.		
Subtype title	AIM11	AIM11		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	2.5 kg	2.5 kg		
Certification Date	10.10.2018			

#### **Model: AIM11EMX3PH**

Configure model		
Model name AIM11EMX3PH		
Application	Heating + DHW + low temp	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

#### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	10.16 kW	7.36 kW	
El input	2.54 kW	3.51 kW	
СОР	4.00	2.10	

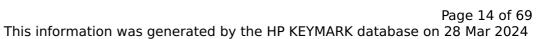
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1		
Low temperature Medium temperature		
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	114 %
Prated	7.83 kW	6.91 kW
SCOP	3.86	2.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.93 kW	6.11 kW
COP Tj = -7°C	2.67	1.62
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	4.56 kW	3.64 kW
COP Tj = +2°C	3.81	2.98
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	2.83 kW	4.55 kW
$COPTj = +7^{\circ}C$	4.56	4.16
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.12 kW	3.90 kW

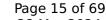
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$\bigcirc$	
	CEN heat pump
13	KEYMARK

COP Tj = 12°C	6.93	6.52
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.93 kW	6.11 kW
COP Tj = Tbiv	2.67	1.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.99 kW	4.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.31	1.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	2.50 kW
Annual energy consumption Qhe	4196 kWh	4880 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.13	
Heating up time	2:40 h:min	
Standby power input	59.3 W	
Reference hot water temperature	46.7 °C	
Mixed water at 40°C	377	

#### **Model: AIM11EMX**

Configure model			
Model name	AIM11EMX		
Application	Heating + DHW + low temp		
Units	Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.16 kW	7.36 kW	
El input	2.54 kW	3.51 kW	
СОР	4.00	2.10	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	114 %
Prated	7.83 kW	6.91 kW
SCOP	3.86	2.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.93 kW	6.11 kW
COP Tj = -7°C	2.67	1.62
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.56 kW	3.64 kW
COP Tj = +2°C	3.81	2.98
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7$ °C	2.83 kW	4.55 kW
$COP Tj = +7^{\circ}C$	4.56	4.16
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.12 kW	3.90 kW

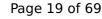
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COP Tj = 12°C	6.93	6.52
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.93 kW	6.11 kW
COP Tj = Tbiv	2.67	1.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.99 kW	4.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.31	1.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	2.50 kW
Annual energy consumption Qhe	4196 kWh	4880 kWh

#### Domestic Hot Water (DHW)

CEN heat pump KEYMARK





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.13	
Heating up time	2:40 h:min	
Standby power input	59.3 W	
Reference hot water temperature	46.7 °C	
Mixed water at 40°C	377	



# **Subtype: AIM14**

Summary of	AIM14	Reg. No.	ICIM-PDC-000015-01	
Certificate Holder		-5		
Address	Via Alfeno Varo, 35	Argoclima S.p.A  Via Alfeno Varo. 35  Zip  25020		
	· ·	Zip		
City	Alfianello (BS)	Country	Italy	
Certification Body		ICIM S.p.A.		
Subtype title	AIM14			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	3.1 kg	3.1 kg		
Certification Date	10.10.2018			

#### **Model: AIM14EMX3PH**

Configure model		
Model name	AIM14EMX3PH	
Application	Heating + DHW + low temp	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

#### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	13.57 kW	10.26 kW
El input	3.35 kW	4.83 kW
СОР	4.06	2.13

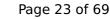
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
Low temperature Medium temperature		
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	111 %
Prated	9.83 kW	9.52 kW
SCOP	3.91	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	8.70 kW	8.42 kW
$COP Tj = -7^{\circ}C$	2.49	1.58
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.95 kW	5.09 kW
COP Tj = +2°C	3.72	2.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	4.17 kW	3.53 kW
$COP Tj = +7^{\circ}C$	5.53	3.87
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.86 kW	4.57 kW

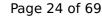
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COP Tj = 12°C	6.64	6.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.70 kW	8.42 kW
COP Tj = Tbiv	2.49	1.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.96 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.24	1.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.88 kW	2.72 kW
Annual energy consumption Qhe	5194 kWh	6931 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	85 %	
СОР	2.05	
Heating up time	2:40 h:min	
Standby power input	47.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	377 I	

#### **Model: AIM14EMX**

Configure model		
Model name	AIM14EMX	
Application	Heating + DHW + low temp	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	13.57 kW	10.26 kW
El input	3.35 kW	4.83 kW
СОР	4.06	2.13

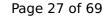
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	111 %
Prated	9.83 kW	9.52 kW
SCOP	3.91	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.70 kW	8.42 kW
COP Tj = -7°C	2.49	1.58
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.95 kW	5.09 kW
COP Tj = +2°C	3.72	2.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.17 kW	3.53 kW
COP Tj = +7°C	5.53	3.87
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.86 kW	4.57 kW

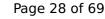
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COP Tj = 12°C	6.64	6.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.70 kW	8.42 kW
COP Tj = Tbiv	2.49	1.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.96 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.24	1.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.88 kW	2.72 kW
Annual energy consumption Qhe	5194 kWh	6931 kWh

#### Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	85 %
СОР	2.05
Heating up time	2:40 h:min
Standby power input	47.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	377 I



# Subtype: AUA + G50

Summary of	AUA + G50	Reg. No.	ICIM-PDC-000021-01
Certificate Holder			
Name Argoclima S.p.A			
Address	Via Alfeno Varo, 35	Zip	25020
City	Alfianello (BS)	Country	Italy
Certification Body	ICIM S.p.A.		
Subtype title	AUA + G50		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.3 kg		
Certification Date	21.02.2019		



#### Model: AUAH + AEI1G50EMX

Configure model		
Model name	AUAH + AEI1G50EMX	
Application	Heating + DHW + low temp	
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.95 kW	4.10 kW
El input	0.97 kW	1.72 kW
COP	4 09	2 39

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



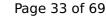
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	111 %
Prated	2.86 kW	3.41 kW
SCOP	3.85	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	2.53 kW	3.01 kW
COP Tj = -7°C	2.26	1.75
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	1.51 kW	1.86 kW
COP Tj = +2°C	3.78	2.78
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.02 kW	1.13 kW
COP Tj = +7°C	5.30	3.74
Cdh Tj = +7 °C	0.900	0.900



0.93 kW	1.31 kW
7.02	5.88
0.900	0.900
2.53 kW	3.01 kW
2.26	1.75
2.32 kW	2.07 kW
2.02	1.11
0.900	0.900
55 °C	55 °C
5 W	5 W
8 W	8 W
5 W	5 W
35 W	35 W
Electricity	Electricity
0.53 kW	1.34 kW
1534 kWh	2479 kWh
	7.02  0.900  2.53 kW  2.26  2.32 kW  2.02  0.900  55 °C  5 W  8 W  5 W  35 W  Electricity  0.53 kW

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	90 %	
СОР	2.22	
Heating up time	5:36 h:min	
Standby power input	45.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	364 I	



# Subtype: AUB + G65

Summary of	AUB + G65	Reg. No.	ICIM-PDC-000022-01
Certificate Holder		<u> </u>	'
Name	Argoclima S.p.A		
Address	Via Alfeno Varo, 35	Zip	25020
City	Alfianello (BS)	Country	Italy
Certification Body	ICIM S.p.A.		
Subtype title	AUB + G65		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.7 kg		
Certification Date	21.02.2019		



#### Model: AUBH + AEI1G65EMX

Configure model		
Model name	AUBH + AEI1G65EMX	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.19 kW
El input	1.54 kW	2.38 kW
COP	4 17	2 19

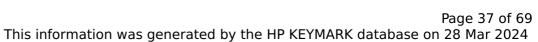
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	111 %
Prated	5.80 kW	4.50 kW
SCOP	3.89	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	3.98 kW
COP Tj = -7°C	2.54	1.59
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.01 kW	2.64 kW
COP Tj = +2°C	3.79	2.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.99 kW	2.08 kW
COP Tj = +7°C	5.01	4.01
Cdh Tj = +7 °C	0.900	0.900

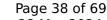
EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



	CEN heat pump
13	KEYMARK

Pdh Tj = 12°C	1.70 kW	2.08 kW
COP Tj = 12°C	6.98	6.08
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.13 kW	3.98 kW
COP Tj = Tbiv	2.54	1.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.36 kW	2.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.01	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
PTO	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.44 kW	1.76 kW
Annual energy consumption Qhe	3083 kWh	3266 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	90 %
СОР	2.21
Heating up time	3:55 h:min
Standby power input	47.3 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	364 I



# Model: AUBH + AEI1G65EMX3PH

Configure model		
Model name AUBH + AEI1G65EMX3PH		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional) n/a		

General Data			
Power supply			

#### Heating

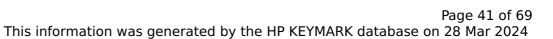
EN 14511-2				
Low temperature Medium temperature				
Heat output	6.40 kW	5.19 kW		
El input	1.54 kW	2.38 kW		
СОР	4.17	2.19		

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	111 %
Prated	5.80 kW	4.50 kW
SCOP	3.89	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	3.98 kW
COP Tj = -7°C	2.54	1.59
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.01 kW	2.64 kW
COP Tj = +2°C	3.79	2.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.99 kW	2.08 kW
COP Tj = +7°C	5.01	4.01
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	1.70 kW	2.08 kW
COP Tj = 12°C	6.98	6.08
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.13 kW	3.98 kW
COP Tj = Tbiv	2.54	1.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.36 kW	2.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.01	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.44 kW	1.76 kW
Annual energy consumption Qhe	3083 kWh	3266 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	90 %
СОР	2.21
Heating up time	3:55 h:min
Standby power input	47.3 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	364 I



# **Subtype: AUC + G110**

Summary of	AUC + G110	Reg. No.	ICIM-PDC-000024-01	
Certificate Holder				
Name	Argoclima S.p.A			
Address	Via Alfeno Varo, 35	Zip	25020	
City	Alfianello (BS)	Country	Italy	
Certification Body	ICIM S.p.A.	ICIM S.p.A.		
Subtype title	AUC + G110			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	3.38 kg			
Certification Date	21.02.2019			



# **Model: AUCH + AEI1G110BEMX**

Configure model		
Model name	AUCH + AEI1G110BEMX	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.45 kW	9.67 kW
El input	2.58 kW	4.18 kW
СОР	4.05	2.31

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	111 %
Prated	8.35 kW	7.10 kW
SCOP	3.85	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.39 kW	6.28 kW
COP Tj = -7°C	2.24	1.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.53 kW	3.72 kW
COP Tj = +2°C	3.76	2.81
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.81 kW	2.96 kW
COP Tj = +7°C	5.34	4.05
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	2.58 kW	2.90 kW
COP Tj = 12°C	7.09	6.02
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.39 kW	6.28 kW
COP Tj = Tbiv	2.24	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.56 kW	3.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.02	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.79 kW	3.15 kW
Annual energy consumption Qhe	4476 kWh	5169 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	91 %	
СОР	2.25	
Heating up time	3:21 h:min	
Standby power input	47.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	364 I	



# Model: AUCH + AEI1G110EMX3PH

Configure model		
Model name	AUCH + AEI1G110EMX3PH	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.45 kW	9.67 kW
El input	2.58 kW	4.18 kW
СОР	4.05	2.31

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

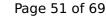
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	111 %
Prated	8.35 kW	7.10 kW
SCOP	3.85	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	7.39 kW	6.28 kW
COP Tj = $-7$ °C	2.24	1.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	4.53 kW	3.72 kW
COP Tj = +2°C	3.76	2.81
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	2.81 kW	2.96 kW
$COP Tj = +7^{\circ}C$	5.34	4.05
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	2.58 kW	2.90 kW
COP Tj = 12°C	7.09	6.02
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.39 kW	6.28 kW
COP Tj = Tbiv	2.24	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.56 kW	3.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.02	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.79 kW	3.15 kW
Annual energy consumption Qhe	4476 kWh	5169 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	91 %
СОР	2.25
Heating up time	3:21 h:min
Standby power input	47.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	364 I



# Subtype: AUC + G80

Summary of	AUC + G80	Reg. No.	ICIM-PDC-000023-01
Certificate Holder	Certificate Holder		
Name	Argoclima S.p.A		
Address	Via Alfeno Varo, 35	Zip	25020
City	Alfianello (BS)	Country	Italy
Certification Body	ICIM S.p.A.	ICIM S.p.A.	
Subtype title	AUC + G80		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.99 kg	2.99 kg	
Certification Date	21.02.2019		



# Model: AUCH + AEI1G80BEMX

Configure model		
Model name	AUCH + AEI1G80BEMX	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### Heating

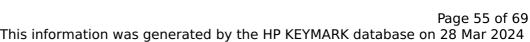
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.97 kW	7.08 kW
El input	1.92 kW	3.05 kW
СОР	4.15	2.32

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

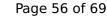
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	111 %
Prated	6.59 kW	5.76 kW
SCOP	3.85	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.83 kW	5.10 kW
COP Tj = -7°C	2.45	1.66
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.33 kW	3.07 kW
COP Tj = +2°C	3.80	2.79
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.16 kW	2.10 kW
COP Tj = +7°C	4.96	3.81
Cdh Tj = +7 °C	0.900	0.900



CEN heat pump KEYMARK
This information was

Pdh Tj = 12°C	2.13 kW	1.79 kW
COP Tj = 12°C	6.64	5.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.83 kW	5.10 kW
COP Tj = Tbiv	2.45	1.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.97 kW	4.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.62 kW	1.43 kW
Annual energy consumption Qhe	3541 kWh	4184 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	90 %
СОР	2.21
Heating up time	3:11 h:min
Standby power input	47.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	364 I



# Model: AUCH + AEI1G80EMX3PH

Configure model		
Model name	AUCH + AEI1G80EMX3PH	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

#### Heating

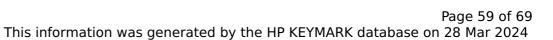
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.97 kW	7.08 kW
El input	1.92 kW	3.05 kW
СОР	4.15	2.32

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	111 %
Prated	6.59 kW	5.76 kW
SCOP	3.85	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.83 kW	5.10 kW
COP Tj = -7°C	2.45	1.66
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.33 kW	3.07 kW
COP Tj = +2°C	3.80	2.79
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.16 kW	2.10 kW
COP Tj = +7°C	4.96	3.81
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	2.13 kW	1.79 kW
COP Tj = 12°C	6.64	5.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.83 kW	5.10 kW
COP Tj = Tbiv	2.45	1.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.97 kW	4.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
PTO	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.62 kW	1.43 kW
Annual energy consumption Qhe	3541 kWh	4184 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	90 %
СОР	2.21
Heating up time	3:11 h:min
Standby power input	47.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	364 I



# Subtype: AUD + G140

Summary of	AUD + G140	Reg. No.	ICIM-PDC-000025-01
Certificate Holder			
Name	Argoclima S.p.A		
Address	Via Alfeno Varo, 35	Zip	25020
City	Alfianello (BS)	Country	Italy
Certification Body	ICIM S.p.A.	ICIM S.p.A.	
Subtype title	AUD + G140	AUD + G140	
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A	R410A	
Mass of Refrigerant	4.4 kg	4.4 kg	
Certification Date	21.02.2019		



# Model: AUDH + AEI1G140EMX3PH

Configure model		
Model name	AUDH + AEI1G140EMX3PH	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

#### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	13.63 kW	10.42 kW	
El input	3.50 kW	4.84 kW	
СОР	3.90	2.15	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	161 %	111 %
Prated	11.86 kW	9.36 kW
SCOP	4.09	2.84
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.49 kW	8.28 kW
COP Tj = -7°C	2.53	1.53
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.27 kW	5.19 kW
COP Tj = +2°C	4.08	2.91
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.34 kW	5.05 kW
COP Tj = +7°C	5.65	4.11
Cdh Tj = +7 °C	0.900	0.900





	1	
Pdh Tj = 12°C	4.76 kW	4.57 kW
COP Tj = 12°C	6.28	5.31
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.49 kW	8.28 kW
COP Tj = Tbiv	2.53	1.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.79 kW	5.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.32	1.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.07 kW	3.54 kW
Annual energy consumption Qhe	5987 kWh	6811 kWh

### Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	80 %	
СОР	1.99	
Heating up time	2:07 h:min	
Standby power input	52.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	364 I	



# Model: AUDH + AEI1G140EMX

Configure model		
Model name   AUDH + AEI1G140EMX		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

### Heating

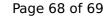
EN 14511-2			
Low temperature Medium temperature			
Heat output	13.63 kW	10.42 kW	
El input	3.50 kW	4.84 kW	
СОР	3.90	2.15	

EN 14511-4	
Shutting off the heat transfer medium flow	naccod
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

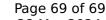
EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	161 %	111 %	
Prated	11.86 kW	9.36 kW	
SCOP	4.09	2.84	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.49 kW	8.28 kW	
COP Tj = -7°C	2.53	1.53	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	6.27 kW	5.19 kW	
COP Tj = +2°C	4.08	2.91	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	6.34 kW	5.05 kW	
COP Tj = +7°C	5.65	4.11	
Cdh Tj = +7 °C	0.900	0.900	





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Pdh Tj = 12°C	4.76 kW	4.57 kW
COP Tj = 12°C	6.28	5.31
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.49 kW	8.28 kW
COP Tj = Tbiv	2.53	1.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.79 kW	5.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.32	1.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	5 W	5 W
РТО	8 W	8 W
PSB	5 W	5 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.07 kW	3.54 kW
Annual energy consumption Qhe	5987 kWh	6811 kWh
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### Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	80 %	
СОР	1.99	
Heating up time	2:07 h:min	
Standby power input	52.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	364 I	