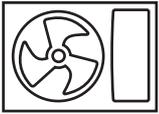
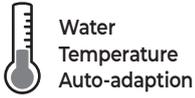
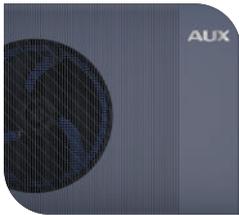
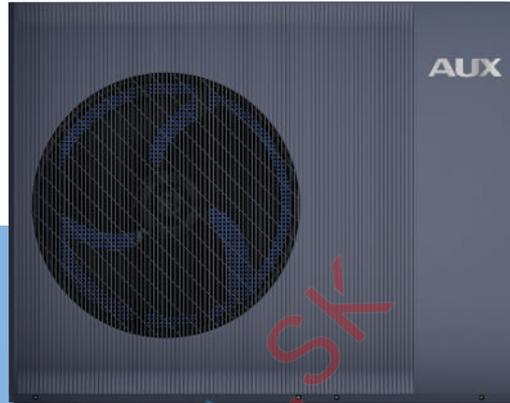


## Heat Pump Series

### AI 290 thermal



Connect up to  
8 Units for total Capacity of 128 KW



#### Stylish Design

AUX AI Thermal Monobloc system is characterized by its stylish matte black casing made from weather resistant materials, ensuring its aesthetic appeal remains for years to come.



#### Energy Efficiency A+++

The R290 AI Thermal boasts energy efficiency of A++/ A+++. Its SCOP is 5.4\*



#### Hot Water to 80°C

The AUX R290 Monobloc System provides hot water reaching a temperature up to 80°C.



#### Stylish Intuitive Control

27 language menu, stylish casing, heat pump can be set up via usb and the controller for easy commissioning.



#### Low Level Noise

AUX heat pumps feature inverter compressors for quiet outdoor operation. With triple insulation and AUX patented fan design noise levels are reduced to 35dB(A) at 3 m. The silent mode function offers two levels for added comfort.



#### Flexible Design Solutions

Flexible compatibility with various heating systems including: underfloor, radiators or fan coil units. Option also to power from your solar system.



#### Dual Temperature Zone

Catering to individual preferences, this feature offers distinct climate control for different areas, ensuring personalized comfort in homes or workplaces.



#### Smart Grid Ready

Heat pumps marked with SG Ready label are equipped with control system that allows to connect a single heat pump into a smart grid.



## AI 290 thermal

## Specifications

BMS  
ConnectivityWired  
ControllerWiFi  
Control

Model Size			4kW	6kW	8kW	
Model			ACMHC-H12B/P24R2DI	ACMHC-H24A/P24R2DI	ACMHC-H30A/P36R2DI	
Power supply	Monobloc Unit	V/Ph/H	220-240/1/50	220-240/1/50	220-240/1/50	
Heating2	Capacity	kW	4.5	6.2	8.4	
	Rated input	kW	0.87	1.27	1.68	
	COP		5.15	4.9	5	
Heating3	Capacity	kW	4.6	6.2	7.8	
	Rated input	kW	1.44	2.00	2.44	
	COP		3.2	3.10	3.2	
Cooling4	Capacity	kW	4.5	6.5	8.3	
	Rated input	kW	0.82	1.27	1.61	
	EER		5.5	5.1	5.15	
Cooling5	Capacity	kW	4.7	6.8	7.5	
	Rated input	kW	1.29	2.19	2.17	
	EER		3.65	3.1	3.45	
Energy efficiency class	LWT at 35°C		A+++	A+++	A+++	
	LWT at 55°C		A+++	A+++	A+++	
MOP(Maximum overcurrent protection)		A	14	14	18	
DC Inv.Compressor	Type		Twin rotary DC inverter	Twin rotary DC inverter	Twin rotary DC inverter	
	Brand		GMCC	GMCC	panasonic	
	RPM	rps	3450	3450	3450	
	Input	W	1400	1400	1935	
	Operating Frequency	Hz	12~120	12~120	12~120	
Fan Motor	Type		Brushless DC motor	Brushless DC motor	Brushless DC motor	
	Brand		WOLONG	WOLONG	WOLONG	
	Output Power x Fan	W	65*1	65*1	170*1	
	Speed	r/min	850	850	870	
Water pump	Brand		Shimge	Shimge	Shimge	
	Max pressure		10bar	10bar	10bar	
	Type		canned pump	canned pump	canned pump	
	Power input		4-95W	4-95W	4-95W	
	Pump head		9m	9m	9m	
	Max Flow		4.5m <sup>3</sup> /h	4.5m <sup>3</sup> /h	4.5m <sup>3</sup> /h	
	Adapter diameter		DN25	DN25	DN25	
Refrigerant	Factory charge (R290)	kg	0.55	0.55	0.9	
Sound pressure level		dB(A)	42	45	51	
Sound power level		dB	55	58	63	
Packed dimensions (W×D×H)		mm	1205*545*860	1205*545*860	1350*545*1210	
Body dimensions (W×D×H)		mm	1130*420*710	1130*420*710	1280*420*1040	
Net/Gross weight		kg	90/98	90/98	124/136	
Operating temperature range	Cooling	°C	-5 ~ 43	-5 ~ 43	-5 ~ 43	
	Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	
	DHW	°C	-25 ~ 43	-25 ~ 43	-25 ~ 43	
Setting water temperature range	Cooling	°C	5 ~ 25	5 ~ 25	5 ~ 25	
	Heating	°C	25 ~ 80	25 ~ 80	25 ~ 80	
	DHW(tank)	°C	30 ~ 75	30 ~ 75	30 ~ 75	
Water circuit	Piping connections	inch	G1"BSP	G1"BSP	G1"BSP	
	Safety valve	MPa	0.3	0.3	0.3	
	Flow switch	m <sup>3</sup> /h	0.36	0.36	0.6	
	Expansion tank	Volume	L	5	5	5
		Max. pressure	MPa	0.8	0.8	0.8
		Pre-pressure	MPa	0.1	0.1	0.1
	Back-up heater	kW	3	3	3	
	Water side	Type		Plate type	Plate type	Plate type
Wiring	Power wiring	mm <sup>2</sup>	6	6	4	

## AI 290 thermal

## Specifications

BMS  
ConnectivityWired  
ControllerWiFi  
Controll

Model Size			10kW	12kW	14kW	16kW	
Model			ACMHC-H36A/P60R2DI5	ACMHC-H42A/P60R2DI5	ACMHC-H48A/P60R2DI5	ACMHC-H60A/P60R2DI5	
Power supply	Monobloc Unit	V/Ph/H	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
	Capacity	kW	10	12	14	15.1	
Heating2	Rated input	kW	2.13	2.50	3.11	3.36	
	COP		4.7	4.8	4.5	4.5	
	Capacity	kW	9.5	12	14	15.1	
Heating3	Rated input	kW	3.11	3.87	4.67	5.21	
	COP		3.05	3.1	3	2.9	
	Capacity	kW	10	12	14	16	
Cooling4	Rated input	kW	2.11	2.67	3.89	4.10	
	EER		4.75	4.5	3.6	3.9	
	Capacity	kW	8.9	11.5	12.7	14	
Cooling5	Rated input	kW	2.74	3.8	4.38	5.09	
	EER		3.25	3.05	2.9	2.75	
	LWT at 35°C		A+++	A+++	A+++	A+++	
Energy efficiency class	LWT at 55°C		A+++	A+++	A+++	A+++	
	MOP(Maximum overcurrent protection)	A	10	14	14	14	
DC Inv.Compressor	Type		Twin rotary DC inverter				
	Brand		panasonic	panasonic	panasonic	panasonic	
	RPM	rps	3450	3450	3450	3450	
	Input	W	1935	4495	4495	4495	
	Operating Frequency	Hz	12~120	15~110	15~110	15~110	
Fan Motor	Type		Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	
	Brand		WOLONG	WOLONG	WOLONG	WOLONG	
	Output Power x Fan	W	170*1	170*1	170*1	170*1	
	Speed	r/min	870	870	870	870	
Water pump	Brand		Shimge	Shimge	Shimge	Shimge	
	Max pressure		10bar	10bar	10bar	10bar	
	Type		canned pump	canned pump	canned pump	canned pump	
	Power input		4-95W	4-95W	4-95W	4-95W	
	Pump head		9m	9m	9m	9m	
	Max Flow		4.5m3/h	4.5m3/h	4.5m3/h	4.5m3/h	
	Adapter diameter		DN25	DN25	DN25	DN25	
Refrigerant	Factory charge (R290)	kg	0.9	1.35	1.35	1.35	
Sound pressure level		dB(A)	51	53	53	53	
Sound power level		dB	63	65	65	65	
Packed dimensions (W×D×H)		mm	1350*545*1210	1350*545*1210	1350*545*1210	1350*545*1210	
Body dimensions (W×D×H)		mm	1280*420*1040	1280*420*1040	1280*420*1040	1280*420*1040	
Net/Gross weight		kg	128/140	140/151	140/151	140/151	
Operating temperature range	Cooling	°C	-5 ~43	-5 ~43	-5 ~43	-5 ~43	
	Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	
	DHW	°C	-25~43	-25~43	-25~43	-25~43	
Setting water temperature range	Cooling	°C	5~25	5~25	5~25	5~25	
	Heating	°C	25~80	25~80	25~80	25~80	
	DHW(tank)	°C	30~75	30~75	30~75	30~75	
Water circuit	Piping connections	inch	G1"BSP	G1"BSP	G1"BSP	G1"BSP	
	Safety valve	MPa	0.3	0.3	0.3	0.3	
	Flow switch	m <sup>3</sup> /h	0.6	0.6	0.6	0.6	
	Expansion tank	Volume	L	5	5	5	5
		Max. pressure	MPa	0.8	0.8	0.8	0.8
		Pre-pressure	MPa	0.1	0.1	0.1	0.1
	Back-up heater		kW	9	9	9	9
Water side	Type		Plate type	Plate type	Plate type	Plate type	
Wiring	Power wiring	mm2	4	6	6	6	

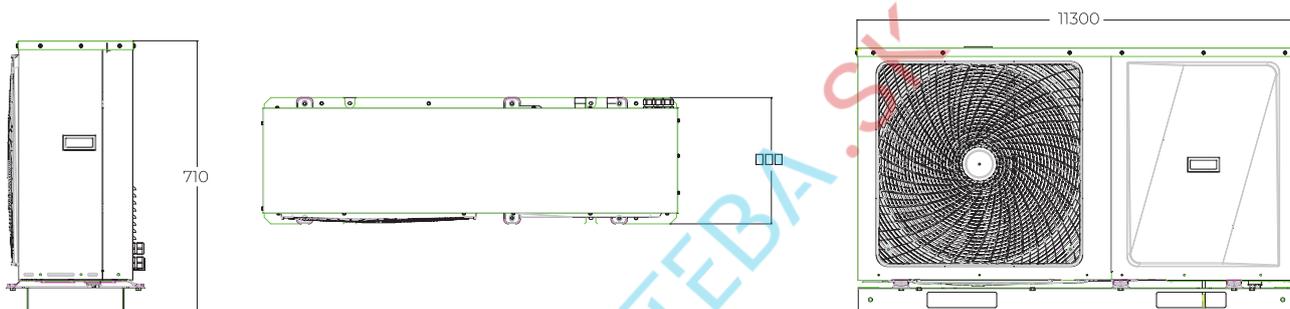
Note:

1. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014.
2. Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.
3. Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C.
4. Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C.
5. Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C.
6. Seasonal space heating energy efficiency class tested in average climate conditions.
7. Test standard: EN12102-1
8. Sound pressure level is the maximum value tested under the two conditions of Notes2 and Notes5.

# AI 290 thermal

## Dimensions

4kW, 6kW AUX-HPWH290-04, AUX-HPWH290-06



8kW, 10kW, 12kW, 14kW, 16kW AUX-HPWH290-08, AUX-HPWH290-10,  
AUX-HPWH290-12, AUX-HPWH290-14, AUX-HPWH290-16

