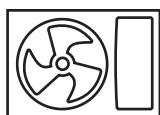


Heat Pump Series

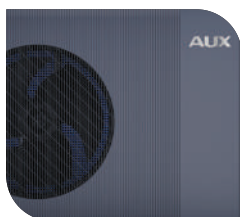
AI 290 thermal



Water
Temperature
Auto-adaption



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.



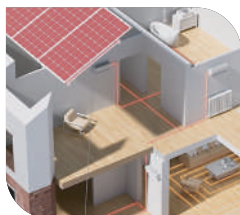
Stylish Intuitive Control

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		4.5m3/h	4.5m3/h	4.5m3/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	m³/h	0.36	0.36	0.6
	Expansion tank	Volume	L	5	5
		Max. pressure	MPa	0.8	0.8
		Pre-pressure	MPa	0.1	0.1
	Back-up heater	kW	3	3	3
Wiring	Water side	Type	Plate type	Plate type	Plate type
	Power wiring	mm2	6	6	4

AI 290 thermal

Specifications

BMS
ConnectivityWired
ControllerWiFi
Control

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
Heating3	Capacity	kW	9.5	12	14	15.1
	Rated input	kW	3.11	3.87	4.67	5.21
	COP		3.05	3.1	3	2.9
Cooling4	Capacity	kW	10	12	14	16
	Rated input	kW	2.11	2.67	3.89	4.10
	EER		4.75	4.5	3.6	3.9
Cooling5	Capacity	kW	8.9	11.5	12.7	14
	Rated input	kW	2.74	3.8	4.38	5.09
	EER		3.25	3.05	2.9	2.75
Energy efficiency class	LWT at 35°C		A+++	A+++	A+++	A+++
	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	Twin rotary DC inverter	Twin rotary DC inverter	Twin rotary DC inverter
	Brand		panasonic	panasonic	panasonic	panasonic
	RPM	rps	3450	3450	3450	3450
	Input	W	1935	4495	4495	4495
Fan Motor	Operating Frequency	Hz	12~120	15~110	15~110	15~110
	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
	Brand		Shimge	Shimge	Shimge	Shimge
	Max pressure		10bar	10bar	10bar	10bar
	Type		canned pump	canned pump	canned pump	canned pump
Water 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
Setting water temperature range	DHW	°C	-25~43	-25~43	-25~43	-25~43
	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	m³/h	0.6	0.6	0.6	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	9	9	9	9
Wiring	Water side	Type	Plate type	Plate type	Plate type	Plate type
	Power wiring	mm2	4	6	6	6

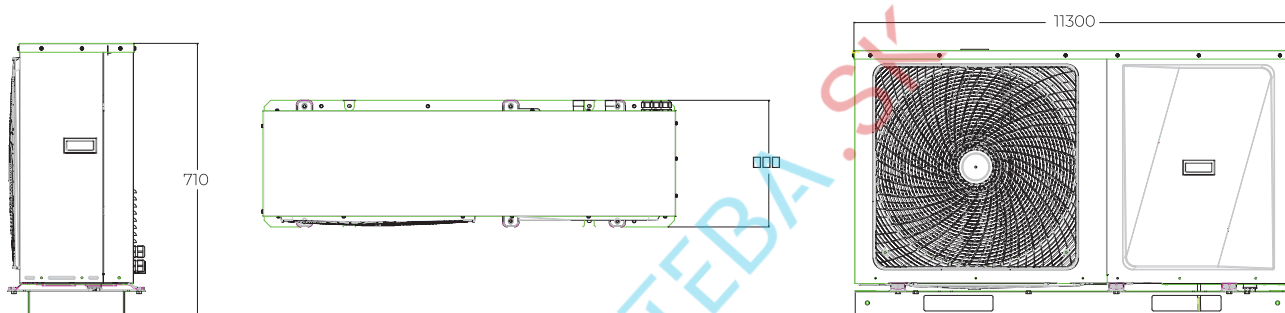
Note:

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 16°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

