AUX
COMMERCIAL AIR CONDITIONER

Heat Pump

Air to water

04

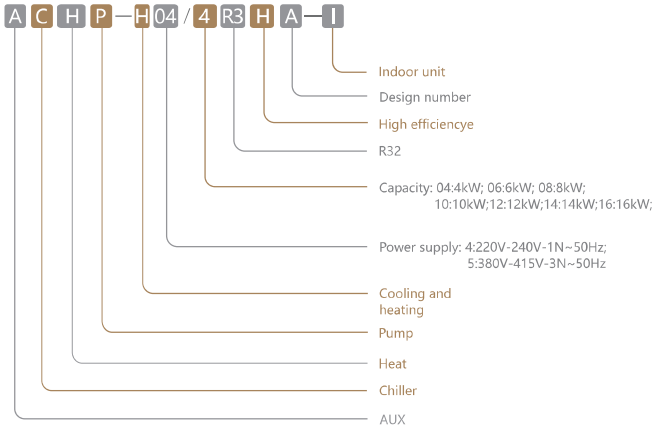
▶Feature

- Saving and Green
- Healthy and Comfortable
- Total solution
- Intelligent operation

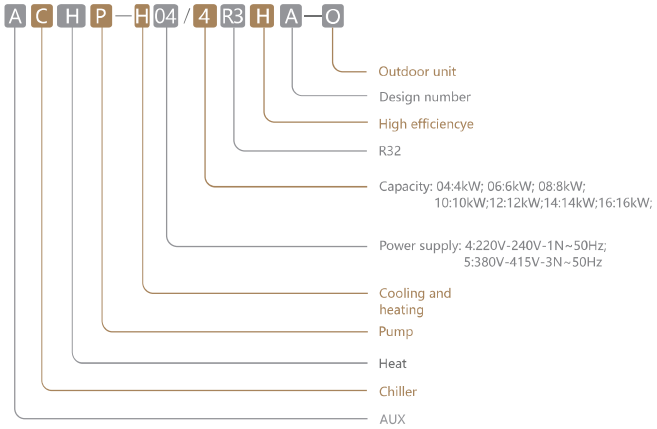
▶Authentication

Nomenclature-Heat Pump

Indoor Unit



Outdoor Unit



Product Lineup

R290 Monoblock AI-Thermal Heat Pump

Capacity(kW)		4	6	8	10	12	14	16
Monoblock	220-240/1/50(NE)	●	●	●	●	●	●	●
	220-240 /1/50(3kW EH)	●	●	●	●	●	●	●
	380-415 /3/ 50(9kW EH)			●	●	●	●	●

R32 Monoblock AI-Thermal Heat Pump

Capacity(kW)		4	6	8	10	12	14	16
Monoblock	220-240/1/50(NE)	●	●	●	●	●	●	●
	220-240 /1/50(3kW EH)	●	●	●	●	●	●	●
	380-415 /3/ 50(9kW EH)			●	●	●	●	●

R32 Split AI-Thermal Heat Pump

Capacity(kW)			4	6	8	10	12	14	16
Split	ODU	220-240/1/50	●	●	●	●	●	●	●
		380-415/3/50					●	●	●
	Hydraulic	220-240 /1/ 50(3kW EH)	●	●	●	●	●	●	●
		380-415 /3/ 50(9kW EH)			●	●	●	●	●

HEAT PUMP
R290

R290
Green & environmental protection

−7℃
−7℃ capacity no damping

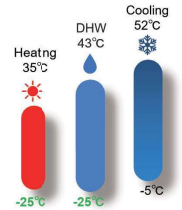
55℃
A+++
High Efficiency

3m<35dB
Low noise operation

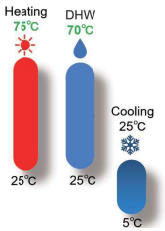
×8
128kW
Combination of 8 units

Feature

▶ Operation range



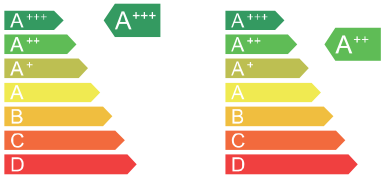
Ambient temperature range



Water temperature range

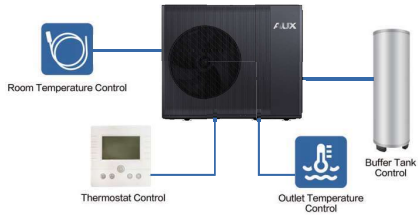
▶ Energy Efficiency

The energy efficiency grade for whole series of Low Average working conditions meets A+++, and the energy efficiency grade of Medium Average meets A++.



EUROVENT CERTIFIED PERFORMANCE
ErP

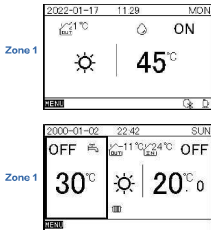
▶ Control way



·Outlet water temperature control
·Buffer tank temperature control
·Thermostat control
·Room temperature control

▶ Product profile-line

We selected high slimmer inner grooved copper tube in the modular chiller, which has improved more than 10% heat exchanging efficiency than the normal one.

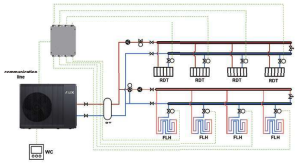


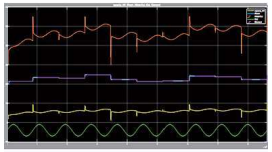
Control way				
	Type ①	Type ②	Type ③	Type ④
Main zone	Water temp	Water temp	Room temp	Room temp
Second zone	Water temp	Room temp	Water temp	Room temp

Feature

▶ Room temperature control

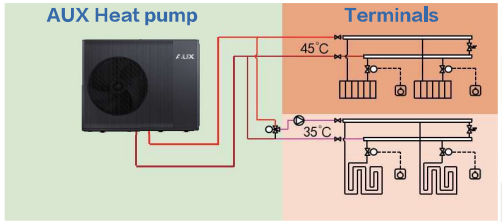
Connected to KIT, 8 room temperatures can be individually set and control.
Room temperature wave range ± 0.5 °C, stable adjust of water temperature and compressor frequency.

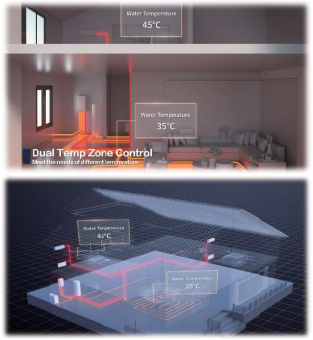




▶ Double zone control

Double zone set and control separately, avoiding energy waste and Saving cost.

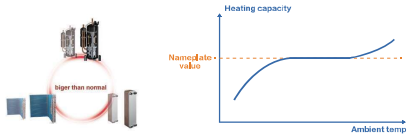




Double zone set and control separately				
Main zone	ON	ON	OFF	OFF
Second zone	ON	OFF	ON	OFF

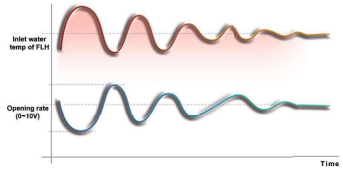
▶ -7°C heating capacity does not decay

Compressor, condenser and evaporator is bigger than normal, and the heating capacity of ambient temperature is as low as -7°C is same with nameplate nominal value.



▶ Mix valve 0-10V control

Mixing valve is controlled by 0-10V, under floor heating inlet water temp wave range is ±0.3°C,room temp stable and high comfortable.
The wave of water inlet temperature for under floor heating is small, prevent floor cracking and warping.



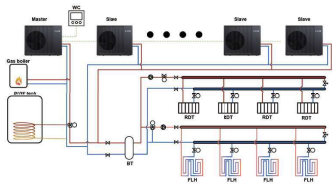
Feature

▶ Low noise operation

Optimized air duct design and extensive use of silencing materials, 3m noise as low as 35dB.

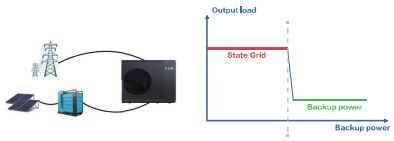
▶ Combination of 8 units

Up to 8 units combination, the maximum heating capacity can reach 128kW, can meet the needs of small apartments, hotels, hospitals, etc.



▶ Backup power identification

When using backup power, the heat pump operates at low load to maintain room temp and prevent room temp too low.



▶ Remote control

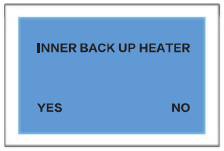
Remote setting of operating parameters, monitoring of heat pump operation, early identification of faults, remote after-sales service.

▶ Intelligent APP

Use APP to switch on and off, temperature setting and related function setting
Use APP to query running time, power consumption of each mode
Use APP to upgrade program

▶ Parameter Setting Guidelines(only color screen wired controller)

After installation, guide installer to complete parameters setting step by step.
This will reduce the requirement for the professionalism of the installer, and relieve the shortage of professional installer.



Specification-Monoblock

Model name			4kW	6kW	8kW
Model			ACMHC-H12B/P24R2DI-C	ACMHC-H24A/P24R2DI-C	ACMHC-H30A/P36R2DI-C
			ACHP-H04/4R2HA-M	ACHP-H06/4R2HA-M	ACHP-H08/4R2HA-M
Power supply		V/Ph/H	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
Seasonal space heating energy efficiency class7	LWT at 35ºC		A+++	A+++	A+++
	LWT at 55ºC		A+++	A+++	A+++
sound pressure level	Monobloc Unit	dB(A)	42	45	51
Sound power level	Monobloc Unit	dB	55	58	63
Packed dimensions (W×D×H)	Hydronic Box	mm	1205*545*860	1205*545*860	1350*545*1210
Body dimensions (W×D×H)	Hydronic Box	mm	1130*420*710	1130*420*710	1280*420*1040
Operating temperature range	Cooling	ºC	-5 ~43		
	Heating	ºC	-25~ 35		
	DHW(tank)	ºC	-25~43		
Setting water temperature range	Cooling	°C	5~25		
	Heating	°C	25~80		
	DHW(tank)	°C	30~75		
Water circuit	Piping connections	inch	G1"BSP		
	Safety valve set pressure	MPa	0.3		
	Flow switch	m³/h	0.36		0.6
	Expansion tank Volume	L	5		
	Capacity of the back-up heater	kW	3		
Stuffing Quantity	40H/40/20	Unit	120/78/36	120/78/36	68/33/16

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.

Specification-Monoblock

Model name			10kW	12kW	14kW	16kW
Model			ACMHC-H36A/P60R2DI-C	ACMHC-H42A/P60R2DI-C	ACMHC-H48A/P60R2DI-C	ACMHC-H60A/P60R2DI-C
			ACHP-H10/4R2HA-M	ACHP-H12/4R2HA-M	ACHP-H14/4R2HA-M	ACHP-H16/4R2HA-M
Power supply		V/Ph/H	220-240/1/50			
Heating2	Capacity	kW	10	12	14	15.1
	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
Seasonal space heating energy efficiency class7	LWT at 35ºC		A+++	A+++	A+++	A+++
	LWT at 55ºC		A+++	A+++	A+++	A+++
sound pressure level	Monobloc Unit	dB(A)	51	53	53	53
Sound power level	Monobloc Unit	dB	63	65	65	65
Packed dimensions (W×D×H)	Hydronic Box	mm	1350*545*1210			
Body dimensions (W×D×H)	Hydronic Box	mm	1280*420*1040			
Operating temperature range	Cooling	ºC	-5 ~43			
	Heating	ºC	-25~ 35			
	DHW(tank)	ºC	-25~43			
Setting water temperature range	Cooling	°C	5~25			
	Heating	°C	25~80			
	DHW(tank)	°C	30~75			
Water circuit	Piping connections	inch	G1"BSP			
	Safety valve set pressure	MPa	0.3			
	Flow switch	m³/h	0.6			
	Expansion tank Volume	L	5			
	Capacity of the back-up heater	kW	3			
Stuffing Quantity	40H/40/20	Unit	92/86/42	92/86/42	66/66/32	66/66/32

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.

Specification-Monoblock

Model name			8kW	10kW	12kW
Model			ACMHC-H30A5/P60R2DI5-C	ACMHC-H36A5/P60R2DI5-C	ACMHC-H42A5/P60R2DI5-C
			ACHP-H08/5R2HA-M	ACHP-H10/5R2HA-M	ACHP-H12/5R2HA-M
Power supply		V/Ph/H	380-415/3/50		
Heating2	Capacity	kW	8.4	10	12
	Rated input	kW	1.68	2.13	2.50
	COP		5	4.7	4.8
Heating3	Capacity	kW	7.8	9.5	12
	Rated input	kW	2.44	3.11	3.87
	COP		3.2	3.05	3.1
Cooling4	Capacity	kW	8.3	10	12
	Rated input	kW	1.61	2.11	2.67
	EER		5.15	4.75	4.5
Cooling5	Capacity	kW	7.5	8.9	11.5
	Rated input	kW	2.17	2.74	3.8
	EER		3.45	3.25	3.05
Seasonal space heating energy efficiency class7	LWT at 35ºC		A+++	A+++	A+++
	LWT at 55ºC		A+++	A+++	A+++
sound pressure level	Monobloc Unit	dB(A)	51	51	53
Sound power level	Monobloc Unit	dB	63	63	65
Packed dimensions (W×D×H)	Hydronic Box	mm	1205*545*860	1205*545*860	1350*545*1210
Body dimensions (W×D×H)	Hydronic Box	mm	1130*420*710	1130*420*710	1280*420*1040
Operating temperature range	Cooling	ºC	-5 ~43		
	Heating	ºC	-25~ 35		
	DHW(tank)	ºC	-25~43		
Setting water temperature range	Cooling	°C	5~25		
	Heating	°C	25~80		
	DHW(tank)	°C	30~75		
Water circuit	Piping connections	inch	G1"BSP		
	Safety valve set pressure	MPa	0.3		
	Flow switch	m³/h	0.6		
	Expansion tank Volume	L	5		
	Capacity of the back-up heater	kW	9		
Stuffing Quantity	40H/40/20	Unit	68/33/16		

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.

Specification-Monoblock

Model name			14kW	16kW
Model			ACMHC-H48A/P60R2DI5-C	ACMHC-H60A/P60R2DI5-C
			ACHP-H14/5R2HA-M	ACHP-H16/5R2HA-M
Power supply		V/Ph/H	380-415/3/50	
Heating2	Capacity	kW	14	15.1
	Rated input	kW	3.11	3.36
	COP		4.5	4.5
Heating3	Capacity	kW	14	15.1
	Rated input	kW	4.67	5.21
	COP		3	2.9
Cooling4	Capacity	kW	14	16
	Rated input	kW	3.89	4.10
	EER		3.6	3.9
Cooling5	Capacity	kW	12.7	14
	Rated input	kW	4.38	5.09
	EER		2.9	2.75
Seasonal space heating energy efficiency class7	LWT at 35ºC		A+++	A+++
	LWT at 55ºC		A+++	A+++
sound pressure level	Monobloc Unit	dB(A)	53	53
Sound power level	Monobloc Unit	dB	65	65
Packed dimensions (W×D×H)	Hydronic Box	mm	1205*545*860	1205*545*860
Body dimensions (W×D×H)	Hydronic Box	mm	1130*420*710	1130*420*710
Operating temperature range	Cooling	ºC	-5 ~43	
	Heating	ºC	-25~ 35	
	DHW(tank)	ºC	-25~43	
Setting water temperature range	Cooling	°C	5~25	
	Heating	°C	25~80	
	DHW(tank)	°C	30~75	
Water circuit	Piping connections	inch	G1"BSP	
	Safety valve set pressure	MPa	0.3	
	Flow switch	m³/h	0.6	
	Expansion tank Volume	L	5	
	Capacity of the back-up heater	kW	9	
Stuffing Quantity	40H/40/20	Unit	68/33/16	

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.