AUX
COMMERCIAL AIR CONDITIONER

R290

AIR TO WATER HEAT PUMP

Facebook: AUX Air Conditioner Heat Pump Europe

auxcool.com

WIENKRA
Cracow: ul.Kotlasrka 34
Warsaw-Puchały: ul. Żwirowa 78
Wrocław: al. Armii Krakowej 61
Kokotów (Warehouse): Kokotów 812B

MILESTONE

STARTUP & DEVELOPMENT (1986-2022)

Start-up & development (1986-2010)

Started from scratch, developed by
self-improvement, completed the existing industrial structure

1986
started business

1989
Entered the meter industry and later created the brand of Sanxing

1994
Entered the air-conditioning industry and created the brand of AUX

2000
Enter the real estate industry

2003
Entered The CAC Field

2004
Got CNAS Certification

2009
Entered the investment industry

2011
Sanxing Electrical (601567.SH) was listed in Shanghai Stock Exchange and later renamed as "Sanxing Medical"

Transformation and future (2011-present)

Took the first step in mindset changes, industrial transformation, capital transformation and strategy transformation

2012
Successively set up R&D centers in Hangzhou and Ningbo to promote the research and application of smart grid and smart home appliance technologies

2014
Established the medical groun to deploy the medical and health strategy

2015
Built overseas plants in Brazil and Indonesia Developed overseas real estate in Australia Acquired a company in Hongkong Stock Exchange and renamed it as AUX International (02080.HK)

2016
The scale of air-conditioners jumped to the third place in the industry, and a new smart home appliance export production base was built

2018
Prepared to build smart home appliance production bases in Thailand and Zhengzhou Dedicated to making AUX Japanese R&D Center a global home appliance R&D highland

2020
Zhengzhou Intelligent Home Appliance Manufacturing Base Project started

2021
Became the official exclusive supplier of air conditioners for the 19th Asian Games Hangzhou 2022

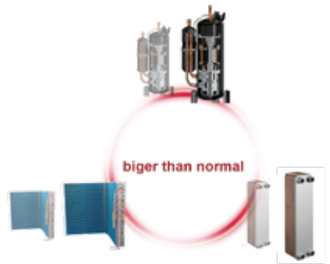
2023
Vigorously promote the development of overseas own-brand products and establish sales companies in Malaysia, Thailand and the United States

R290 Monoblock

High capacity

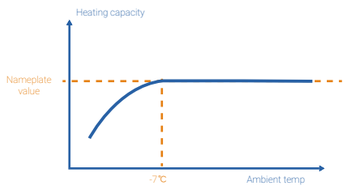
- Finned heat exchanger area ↑17%
- Enlarged plate heat exchanger
- Fan blade area ↑10%
- Compressor displacement ↑55%

*Compare with AUX R32 heat pump



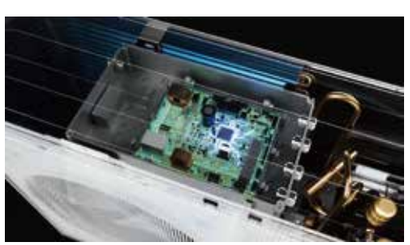
100% output with no capacity reduction at -7℃
Supplying hot water at 80℃ in an environment of -10℃

*Data Source: AUX Performance Lab,2023.10.16

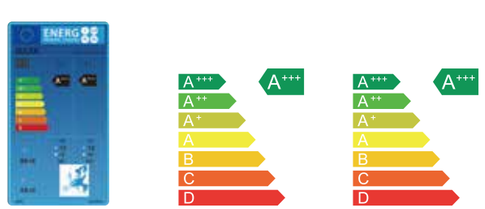


High energy efficient

Main components use DC control, high operational efficiency



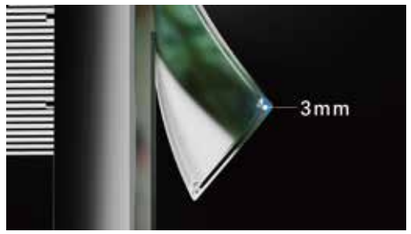
The water temperature is 35℃ and 55℃,SCOP is A+++



*Data Source:keymark，Patent No: 011-1W0741

Sealed electrical control box

- 3mm aluminum box
- Internal fan design for even heat dissipation
- Add external cooling fins

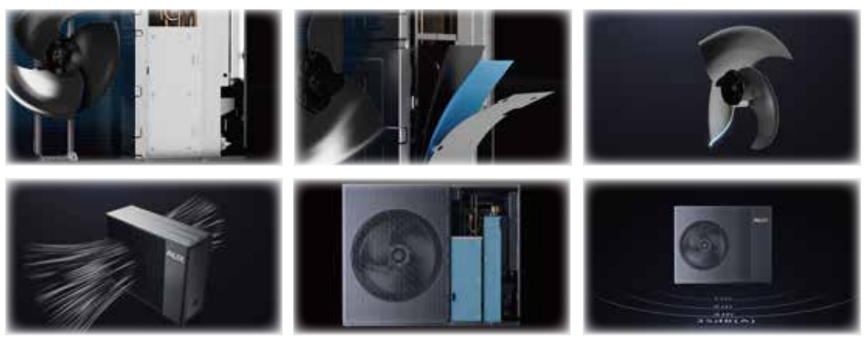


Explosion-proof

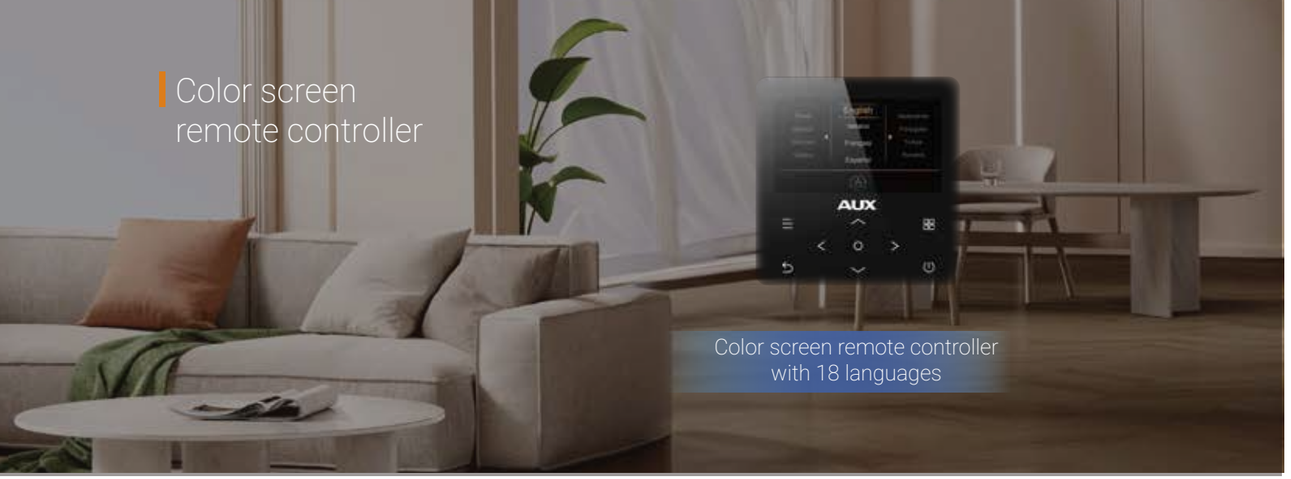
Airtight electric control box,separated from leaked refrigerant
Explosion-proof joints and parts

Harte impulskontrolle

- The compressor is wrapped with sound-absorbing materials
- With damping material in the middle
- Folded edge fan has a large angle design to reduce vortex noise
- Unique mesh cover to reduce wind resistance
- Built-in sound insulation cotton in many places
- The noise of the outdoor unit is as low as 35dB three meters away



*Data Source: AUX Noise Laboratory,2023.03.15

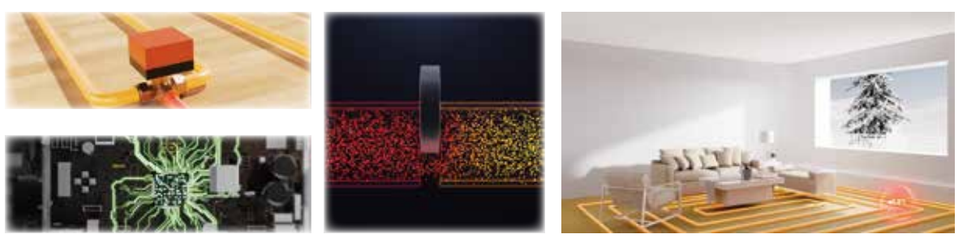


APP control

Support parameter setting, power consumption query, holiday mode, etc

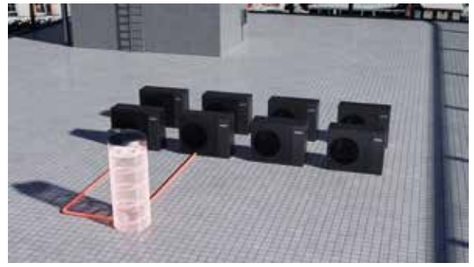
Precise temperature control

- The mixing valve adopts 0-10V control to accurately control the inlet water temperature of the underfloor heating system
- Room temperature changes within ±0.5°C



Cascade function

- Up to 8 units can be connected in parallel, the capacity can up to 128kW
- Can freely choose the number of domestic hot water units, suitable for scenarios with large domestic hot water consumption

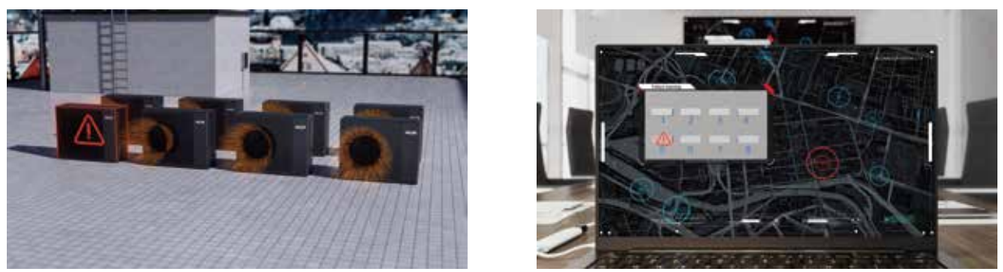


Intelligent control the runing time of each units

By accurately calculating the program, ensure that the running time of each machine is the same

Remote control

Sitting in the office, remotely monitoring the units operation status and modifying operation parameters

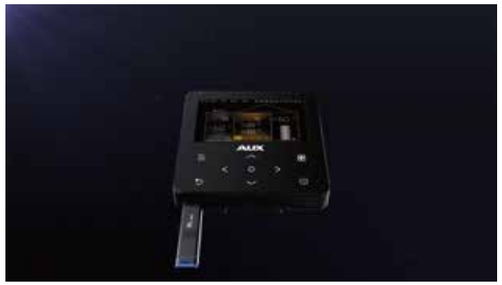


Convenience

The side panel can be opened directly

Program update

The wired controller built-in USB port, whitch can be used to upgrade program



Backup power & Gas boiler

- Can be connected to the backup power to maintain normal operation of the units after the power grid is cut off
- Can be connected with a gas boiler. When the units capacity is insufficient, turn on the gas boiler as an auxiliary heat source

Specification-Monoblock

Model name			4kW	6kW
Model			ACHP-H04/4R2HA-M	ACHP-H06/4R2HA-M
Power supply		V/Ph/H	220–240 / 1 / 50	
Heating[2]	Capacity	kW	4.5	6.35
	Rated power input	kW	0.87	1.28
	COP		5.15	4.95
Heating[3]	Capacity	kW	4.6	6.4
	Rated power input	kW	1.44	2.03
	COP		3.2	3.15
Cooling[4]	Capacity	kW	4.5	6.5
	Rated power input	kW	0.82	1.27
	EER		5.5	5.1
Cooling[5]	Capacity	kW	4.7	6.8
	Rated power input	kW	1.29	2.19
	EER		3.65	3.1
Seasonal space heating energy efficiency*7	LWT 35°C		A+++	A+++
	LWT 55°C		A+++	A+++
SCOP[6]	LWT 35°C		4.96	4.96
	LWT 55°C		3.90	3.90
Water pump	Head	m	9	
	Maximum flow rate	m^3/h	4.5	
	Adapter diameter		DN25	
Sound pressure level	Monobloc unit	dB(A)	43	43
Sound power level	Monobloc unit	dB	56	57
Packaging dimensions (W × D × H)	Monobloc unit	mm	1205*555*870	
Unit dimensions (W × D × H)	Monobloc unit	mm	1130*450*740	
Net weight	Monobloc unit	kg	93	
Gross weight	Monobloc unit	kg	104	
Operating temperature range	Cooling	°C	-5 ~ 43	
	Heating	°C	-25 ~ 35	
	DHW (tank)	°C	-25 ~ 43	
Water temperature setting range	Cooling	°C	5 ~ 25	
	Heating	°C	25 ~ 80	
	DHW (tank)	°C	30 ~ 75	
Water circuit	Pipe connections	in.	G1" BSP	
	Safety valve pressure	MPa	0.3	
	Flow switch	m^3/h	0.36	
	Expansion vessel capacity	L	5	
	Backup heater capacity	kW	3	
Loading quantity	40H/40/20	pcs.	117/78/36	

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.

Remarks:
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Specification-Monoblock

Model name			8kW	10kW	12kW	14kW	16kW
Model			ACHP-H08/5R2HA-M	ACHP-H10/5R2HA-M	ACHP-H12/5R2HA-M	ACHP-H14/5R2HA-M	ACHP-H16/5R2HA-M
Power supply		V/Ph/H	380–415 / 3 / 50				
Heating[2]	Capacity	kW	8.4	10.0	12	14	15.1
	Rated power input	kW	1.68	2.08	2.45	2.92	3.21
	COP		5.0	4.8	4.9	4.8	4.7
Heating[3]	Capacity	kW	7.8	9.5	12	14	15.1
	Rated power input	kW	2.36	2.92	3.69	4.38	4.79
	COP		3.3	3.25	3.25	3.2	3.15
Cooling[4]	Capacity	kW	8.3	10.0	12	14	16
	Rated power input	kW	1.61	2.11	2.67	3.89	4.10
	EER		5.15	4.75	4.5	3.6	3.9
Cooling[5]	Capacity	kW	7.5	8.9	11.5	12.7	14
	Rated power input	kW	2.17	2.74	3.8	4.38	5.09
	EER		3.45	3.25	3.05	2.9	2.75
Seasonal space heating energy efficiency*	LWT 35°C		A+++	A+++	A+++	A+++	A+++
	LWT 55°C		A+++	A+++	A+++	A+++	A+++
SCOP[6]	LWT 35°C		5.15	5.15	4.73	4.73	4.78
	LWT 55°C		3.88	3.93	3.83	3.83	3.83
Water pump	Head	m	9				
	Maximum flow rate	m^3/h	4.5				
	Adapter diameter		DN25				
Sound pressure level	Monobloc unit	dB(A)	44	44	45	46	47
Sound power level	Monobloc unit	dB	57	57	57	57	58
Packaging dimensions (W × D × H)	Monobloc unit	mm	1355*545*1210				
Unit dimensions (W × D × H)	Monobloc unit	mm	1280*450*1040				
Net weight	Monobloc unit	kg	140		156		
Gross weight	Monobloc unit	kg	154		167		
Operating temperature range	Cooling	°C	-5 ~ 43				
	Heating	°C	-25 ~ 35				
	DHW (tank)	°C	-25 ~ 43				
Water temperature setting range	Cooling	°C	5 ~ 25				
	Heating	°C	25 ~ 80				
	DHW (tank)	°C	30 ~ 75				
Water circuit	Pipe connections	inch.	G1" BSP				
	Safety valve pressure	MPa	0.3				
	Flow switch	m^3/h	0.6				
	Expansion vessel capacity	L	5				
	Backup heater capacity	kW	9				
Loading quantity	40H/40/20	pcs.	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.
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R290 All In One Split

New appearance

Family style appearance, beautiful and generous, High product identification

High energy efficiency

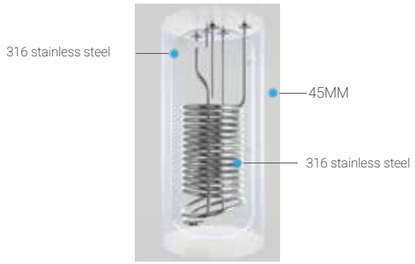
Big compressor, big condensor, big plate heat exchanger, the SCOP can achieve A+++ at 35℃ and 55℃, and the ACS can reach A+

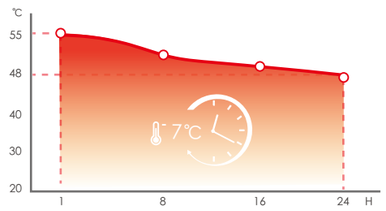
Durable and long-lasting

The water tank liner and heat exchange coil are made of 316 stainless steel

Good heat preservation effect

More than 45mm insulation layer,When the water temperature is 55 ℃, it only drops by 7 ℃ within 24 hours

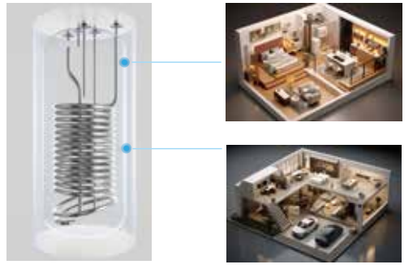




*Data Source: AUX Noise Laboratory,29/07/24

Double temp sensor location

The water tank is equipped with two temperature sensor interfaces, Users can make their own choices based on water consumption



Accurate data monitoring

Build in the water flow sensor,more accurate display of capability and energy efficiency

Safety operation

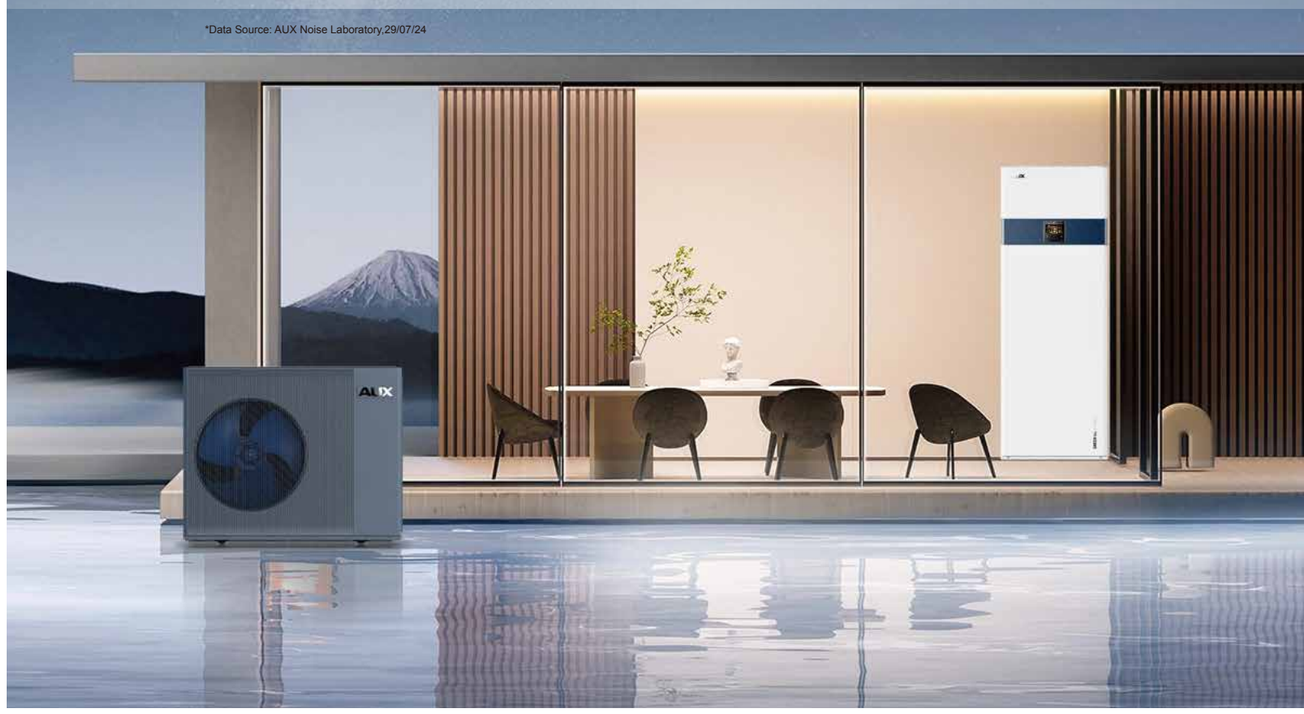
- Build in water and gas separator and automatic exhaust valve on the outdoor unit,this can be prevent refrigerant entering into the room
- Indoor unit installation with manual exhaust valve, When installing, combining indoor and outdoor units can accelerate the exhaust speed

Low noise operation

The outdoor unit uses an independent compressor chamber,large angle fan blades,paste soundproof cotton,It can reach 3m 35dB

Low noise variable frequency water pump used in the indoor unit, operating noise as low as 30dB of 1m

*Data Source: AUX Noise Laboratory,29/07/24



Build in 3-way valve

Build in 3-way valve,separate connection of domestic hot water and heating/cooling pipe,more convenient of installation

Energy consumption display is more detailed

The power consumption of outdoor units, water pumps, electric heater, and water tank electric heater is displayed separately,Convenient for users to
manage energy consumption

Multifunctional wired controller

- The WIFI module,MODBUS module and temp sensor is build in wired controller,more convenience for installation

- The USB port is build in wired controller, users can use this to upgrade program and copy and write paratemers, more convenience for installation and after service

Remote upgrade

Can use APP and remote management platform to upgrade the program and use remote management platform to monitor operating status and set operating parameters, more convenience for after service

Full seriese

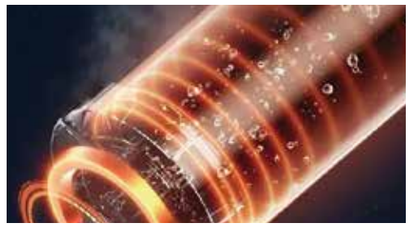
- DThe water tank has 190L , Can meet the needs of 2-6 households

- Single-phase and three-phase units with 3kW or 9kW electric heater

Powerful mode

Using powerful mode, heating/cooling capacity increases by more than 30%,fast heating/cooling

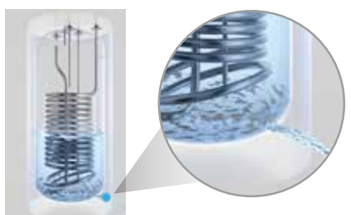
*Data Source: AUX Laboratory,2024.04



Easy to clean

- The water tank reserved magnesium rod connect port, users can choose whether to use it or not,if use it, the anti-corrosion effect is more better

- Reserve a drainage outlet at the bottom of the water tank,users are easier to clean and empty



Easy to installation

The indoor unit size is 600*600,cover an area is small and the height is only 1800mm,Can be installed in cupboard,has no impact on indoor aesthetics

No maintenance space needs to be reserved on the side

All installation and maintenance are completed on the front side,No need to reserve installation and maintenance space on the side

All In One Split

Model name			6kW	8kW	10kW
Outdoor unit model			AC-H06/4R2EA(HA)	AC-H08/4R2EA(HA)	AC-H10/4R2EA(HA)
Indoor unit model			ACHA-H/4R2EB19	ACHA-H/4R2EA19	
Power supply		V/Ph/H	220-240/1/50		
Heating[2]	Capacity	kW	6.35	8.1	9.8
	Rated power input	kW	1.35	1.62	2.04
	COP		4.7	5.0	4.8
Heating[3]	Capacity	kW	6.28	7.6	9.4
	Rated power input	kW	1.62	2.30	2.89
	COP		3.88	3.3	3.25
Cooling[4]	Capacity	kW	6.2	8.1	9.8
	Rated power input	kW	2.05	1.57	2.06
	EER		3.02	5.15	4.57
Cooling[5]	Capacity	kW	5.75	7.4	8.8
	Rated power input	kW	1.6	2.14	2.71
	EER		3.58	3.45	3.25
Seasonal space heating energy efficiency[6][7]	LWT 35°C		A+++	A+++	A+++
	LWT 55°C		A+++	A+++	A+++
SCOP[6]	LWT 35°C		4.85	5.1	5.1
	LWT 55°C		3.83	3.85	3.85
DHW energy efficiency	Water heating energy efficiency class		A+	A+	A+
	COPDHW		2.95	2.95	2.95
	Declared load profile			L	
Water pump	Available head	m	9	9	9
	Maximum flow rate	m^3/h		4.5	
	Adapter diameter			DN25	
Refrigerant R290	Factory charge	kg	0.55	0.85	1.35
Sound pressure level	Outdoor unit	dB(A)	44	44	44
	Indoor unit	dB(A)		31	
Sound power level	Outdoor unit	dB	53	57	57
	Indoor unit	dB	41	43	43
Packaging dimensions (W × D × H)	Outdoor unit	mm	1205*555*870	1355*545*1210	
	Indoor unit	mm	700*628*1945	700*682*1835	
Unit dimensions (W × D × H)	Outdoor unit	mm	1130*420*710	1280*420*1040	
	Indoor unit	mm	600*600*1795	600*600*1720	
Operating temperature range	Cooling	°C	-5 ~ 43		
	Heating	°C	-25 ~ 35		
	DHW (tank)	°C	-25 ~ 43		
Water temperature setting range	Cooling	°C	5 ~ 25		
	Heating	°C	25 ~ 80		
	DHW (tank)	°C	30 ~ 75		
Water circuit	Pipe connections	in.	G1"BSP		
	DHW pipe connections	in.	G3/4"BSP		
	Safety valve pressure	MPa	0.3		
	Flow switch	m^3/h	0.6		
	Expansion vessel capacity	L	8		
	Backup heater capacity	kW	3		
	Water side	Type	Plate type		
Loading quantity	40H/40/20	Outdoor unit (pcs.)	68/33/16		
		Indoor unit (pcs.)	51/51/24		

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.

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All In One Split

Model name			12kW	14kW	16kW
Outdoor unit model			AC-H12/5R2EA(HA)	AC-H14/5R2EA(HA)	AC-H16/5R2EA(HA)
Indoor unit model			ACHA-H/5R2EA19		
Power supply		V/Ph/H	380-415/3/50		
Heating[2]	Capacity	kW	11.6	13.6	15.1
	Rated power input	kW	2.37	2.83	3.21
	COP		4.9	4.8	4.7
Heating[3]	Capacity	kW	11.5	14	14.8
	Rated power input	kW	3.54	4.38	4.70
	COP		3.25	3.2	3.15
Cooling[4]	Capacity	kW	11.6	13.6	15.8
	Rated power input	kW	2.58	3.78	4.05
	EER		4.5	3.6	3.9
Cooling[5]	Capacity	kW	11.1	12.5	14
	Rated power input	kW	3.6	4.31	5.09
	EER		3.05	2.9	2.75
Seasonal space heating energy efficiency[6][7]	LWT 35°C		A+++	A+++	A+++
	LWT 55°C		A+++	A+++	A+++
SCOP[6]	LWT 35°C		4.71	4.71	4.75
	LWT 55°C		3.825	3.825	3.825
DHW energy efficiency	Water heating energy efficiency class		A+	A+	A+
	COPDHW		2.88	2.88	2.88
	Declared load profile			L	
Water pump	Available head	m	9	9	9
	Maximum flow rate	m^3/h		4.5	
	Adapter diameter			DN25	
Refrigerant R290	Factory charge	kg	1.35	1.35	1.35
Sound pressure level	Outdoor unit	dB(A)	45	46	47
	Indoor unit	dB(A)		31	
Sound power level	Outdoor unit	dB	58	59	60
	Indoor unit	dB		43	
Packaging dimensions (W × D × H)	Outdoor unit	mm		1355*545*1210	
	Indoor unit	mm		700*682*1835	
Unit dimensions (W × D × H)	Outdoor unit	mm		1280*420*1040	
	Indoor unit	mm		600*600*1720	
Operating temperature range	Cooling	°C		-5 ~ 43	
	Heating	°C		-25 ~ 35	
	DHW (tank)	°C		-25 ~ 43	
Water temperature setting range	Cooling	°C		5 ~ 25	
	Heating	°C		25 ~ 80	
	DHW (tank)	°C		30 ~ 75	
Water circuit	Pipe connections	in.		G1"BSP	
	DHW pipe connections	in.		G3/4"BSP	
	Safety valve pressure	MPa		0.3	
	Flow switch	m^3/h		0.6	
	Expansion vessel capacity	L		8	
	Backup heater capacity	kW		3	
	Water side	Type		Plate type	
Loading quantity	40H/40/20	Outdoor unit (pcs.)		68/33/16	
		Indoor unit (pcs.)		51/51/24	

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.

Remarks:
1.Data from AUX lab, Data may change according to test surroundings, AUX reserves right of explanation on data
2.All specifications are subject to change by the manufacturer without prior notice