

Heat Pump

Air to water

► Feature



Saving and Green



Healthy and Comfortable



Total solution



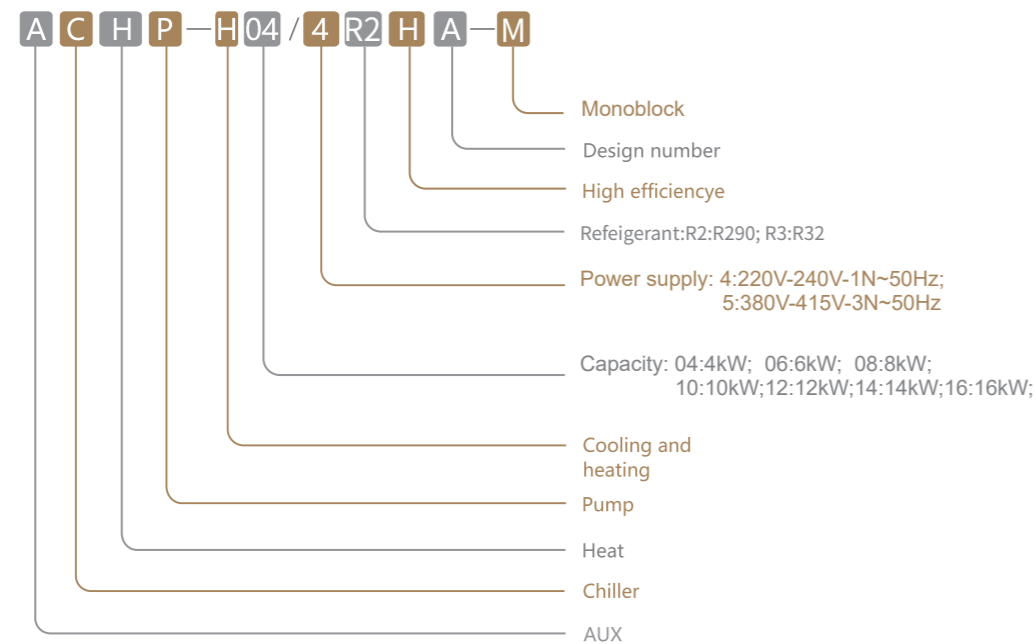
Intelligent operation

► Authentication

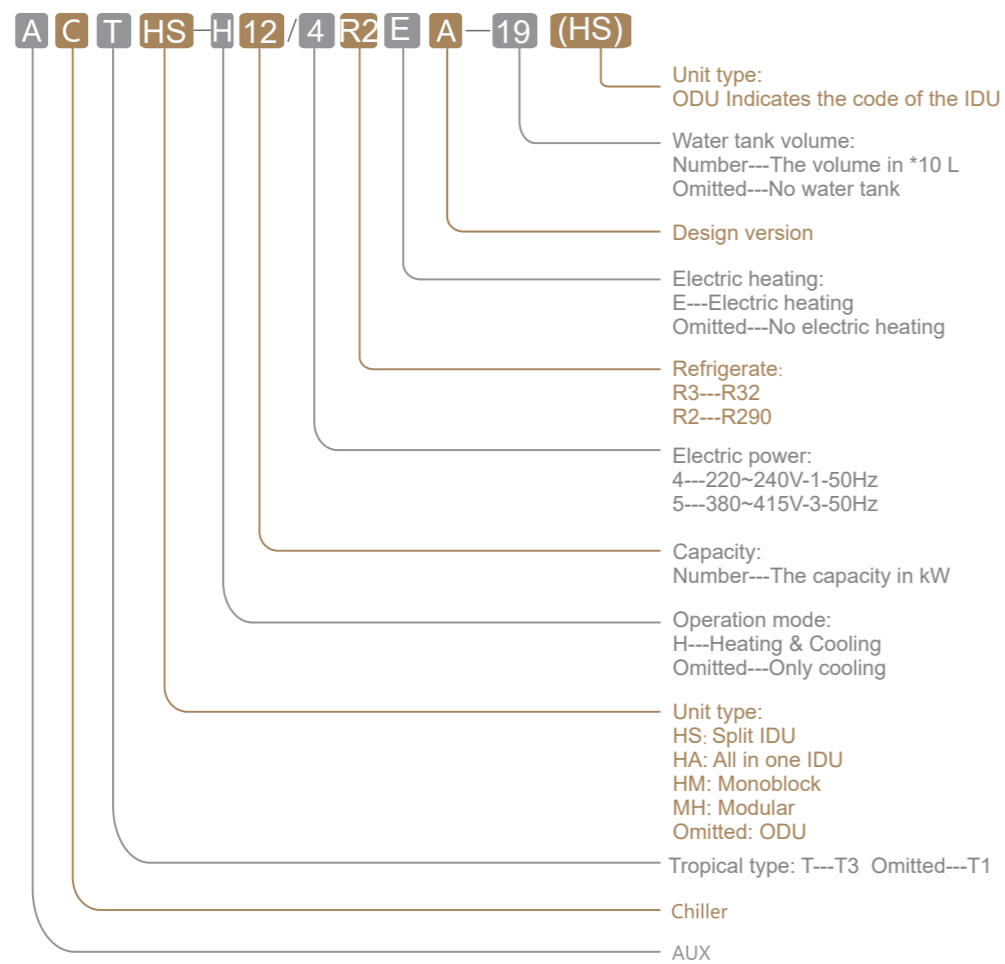


Nomenclature-Heat Pump

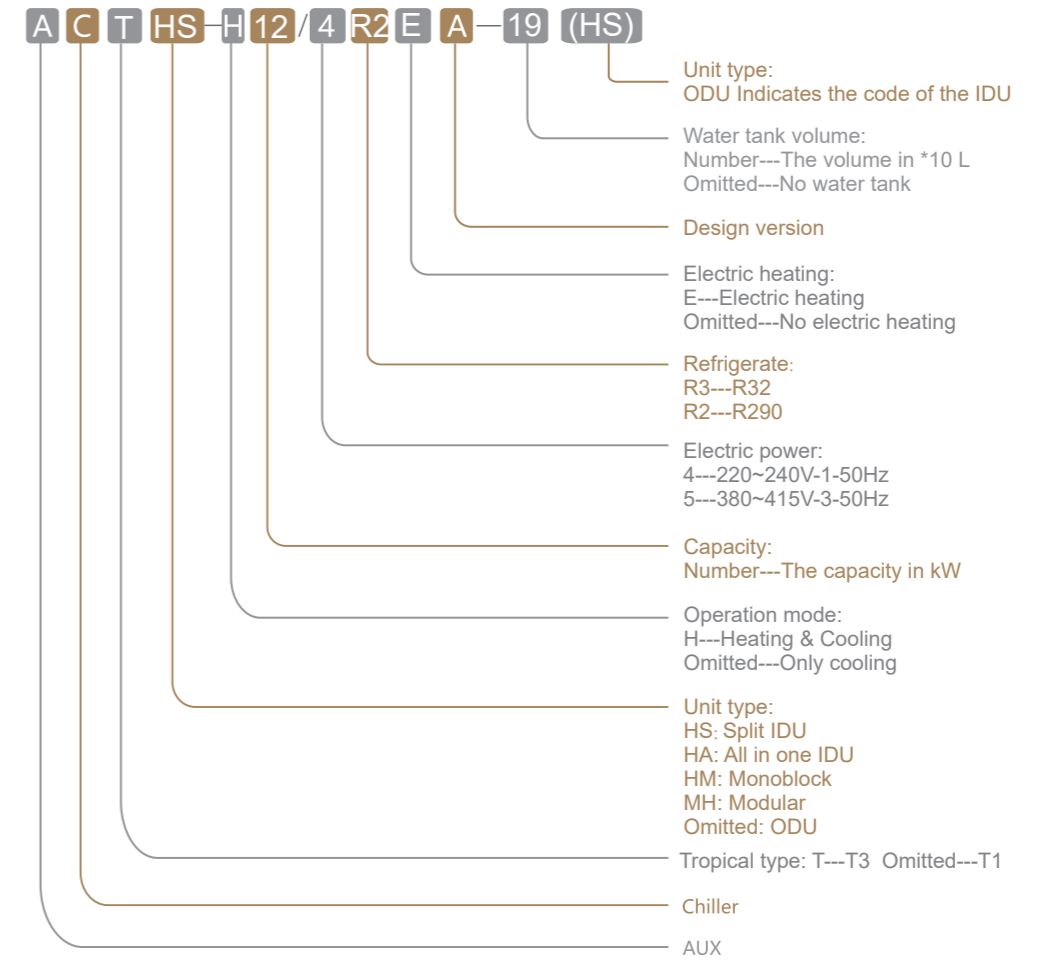
Monoblock



All in One



Split

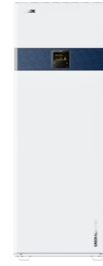


Product Lineup



R290 Monoblock AI-Thermal Heat Pump

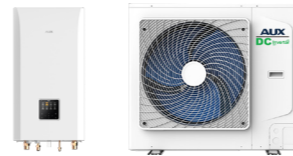
| Capacity(kW) | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|--|---|---|---|----|----|----|----|
| 220-240/1/50(NE) | ● | ● | ● | ● | ● | ● | ● |
| Monoblock 220-240 /1/50(3kW EH) | ● | ● | ● | ● | ● | ● | ● |
| 380-415 /3/ 50(9kW EH) | | | ● | ● | ● | ● | ● |



R290 All In One Split Heat Pump

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

R32 Split AI-Thermal Heat Pump



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

HEAT PUMP

-R290 Monoblock



R290
Green & environmental protection

-7°C
-7°C capacity no damping

55°C A+++
High Efficiency

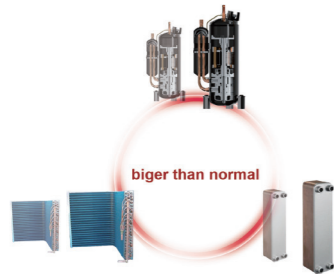
3m < 35dB
Low noise operation

×8 128kW
Combination of 8 units

Feature

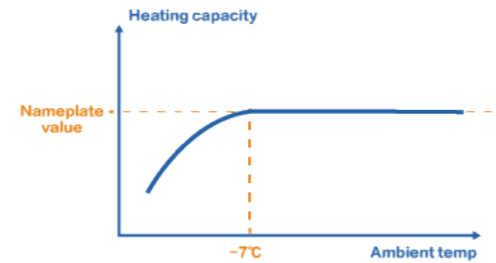
► High capacity

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



*Compare with AUX R32 heat pump

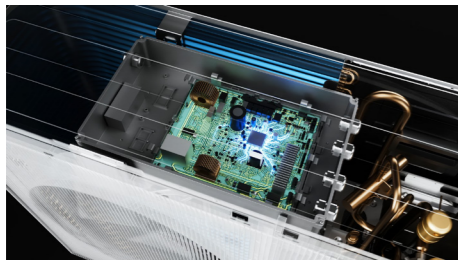
100% output with no capacity reduction at -7°C
Supplying hot water at 80°C in an environment of -10°C



*Data Source: AUX Performance Lab,2023.10.16

► High energy efficiency

Main components use DC control, high operational efficiency



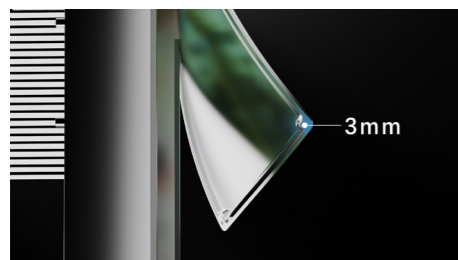
The water temperature is 35°C and 55°C, SCOP is A+++



*Data Source: AUX Performance Lab,2023.10.16

► Sealed electrical control box

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



Feature

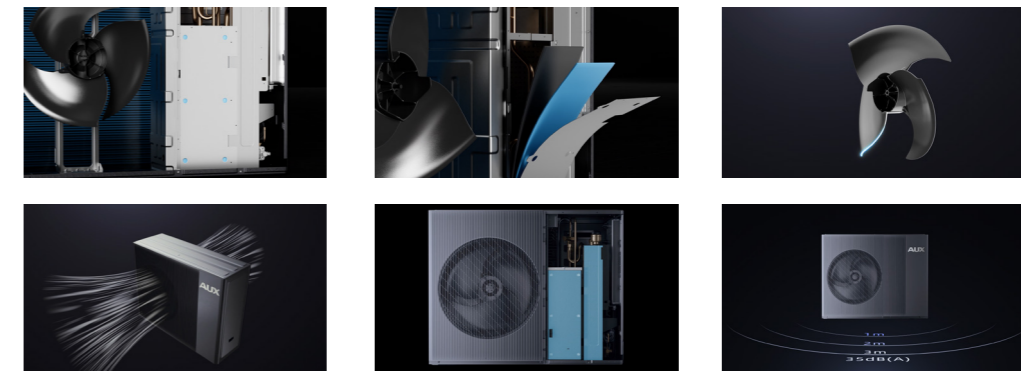
► Explosion-proof

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



► Multiple noise reduction

- 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

► Color screen remote controller



Color screen remote controller
with 18 languages

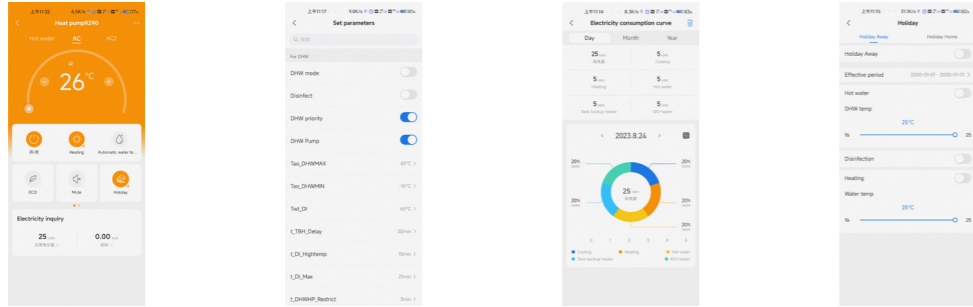


Can control 8 rooms

Feature

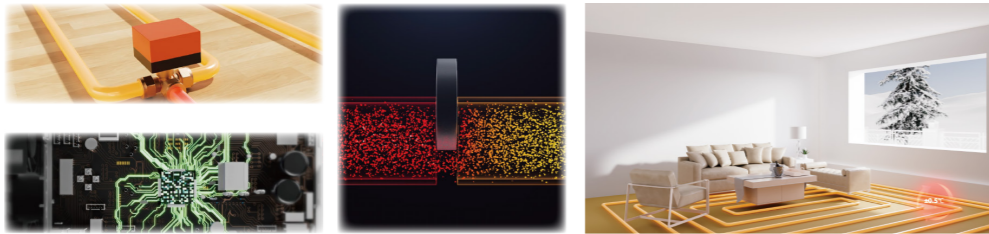
▶ APP control

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



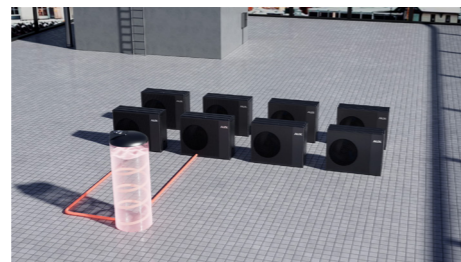
▶ Precise temperature control

- The mixing valve adopts 0-10V control to accurately control the inlet water temperature of the underfloor heating system
- Room temperature changes within $\pm 0.5^{\circ}\text{C}$



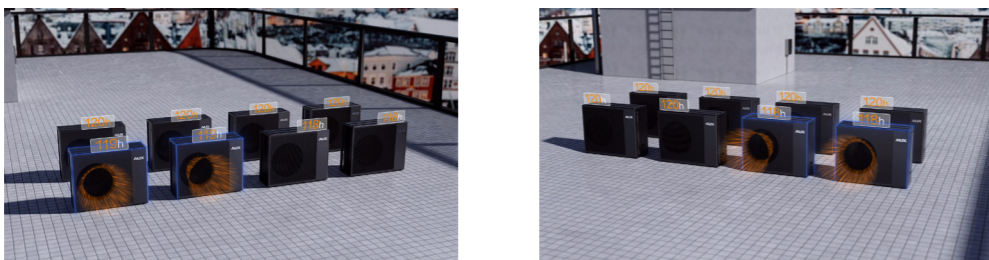
▶ Cascade function

- 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 running time of each units

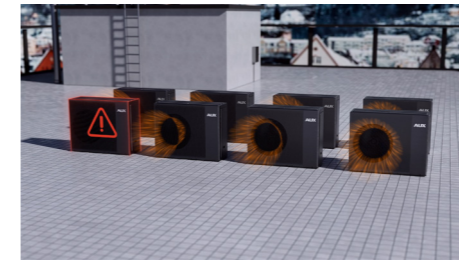
By accurately calculating the program, ensure that the running time of each machine is the same



Feature

▶ 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

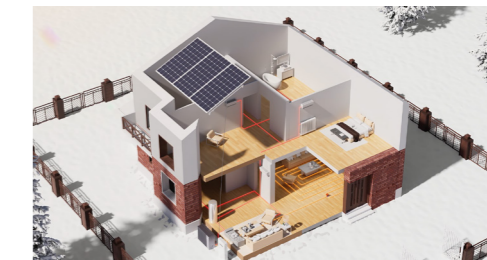
The wired controller built-in USB port, which can be used to upgrade program



▶ 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 | 8kW | 10kW |
|---|--------------------------------|--------|------------------|------------------|------------------|------------------|
| Model | | | ACHP-H04/4R2HA-M | ACHP-H06/4R2HA-M | ACHP-H08/4R2HA-M | ACHP-H10/4R2HA-M |
| Power supply | | V/Ph/H | 220-240/1/50 | | | |
| Heating2 | Capacity | kW | 4.5 | 6.35 | 8.4 | 10.0 |
| | Rated input | kW | 0.87 | 1.28 | 1.68 | 2.08 |
| | COP | | | 5.15 | 4.95 | 5.0 |
| Heating3 | Capacity | kW | 4.6 | 6.4 | 7.8 | 9.5 |
| | Rated input | kW | 1.44 | 2.03 | 2.36 | 2.92 |
| | COP | | | 3.2 | 3.15 | 3.3 |
| Cooling4 | Capacity | kW | 4.5 | 6.5 | 8.3 | 10.0 |
| | Rated input | kW | 0.82 | 1.27 | 1.61 | 2.11 |
| | EER | | | 5.5 | 5.1 | 5.15 |
| Cooling5 | Capacity | kW | 4.7 | 6.8 | 7.5 | 8.9 |
| | Rated input | kW | 1.29 | 2.19 | 2.17 | 2.74 |
| | EER | | | 3.65 | 3.1 | 3.45 |
| Seasonal space heating energy efficiency class ⁷ | LWT at 35°C | | A+++ | A+++ | A+++ | A+++ |
| | LWT at 55°C | | A+++ | A+++ | A+++ | A+++ |
| SCOP6 | LWT at 35°C | | 4.96 | 4.96 | 5.15 | 5.15 |
| | LWT at 55°C | | 3.90 | 3.90 | 3.875 | 3.925 |
| Water pump | Pump head | m | 9 | | | |
| | Max Flow | m³/h | 4.5 | | | |
| | Adapter diameter | | DN25 | | | |
| sound pressure level | Monobloc Unit | dB(A) | 43 | 43 | 44 | 44 |
| Sound power level | Monobloc Unit | dB | 56 | 57 | 57 | 57 |
| Packed dimensions (W×D×H) | Monobloc Unit | mm | 1205*555*870 | | 1355*545*1210 | |
| Body dimensions (W×D×H) | Monobloc Unit | mm | 1130*450*740 | | 1280*450*1040 | |
| Net weight | Monobloc Unit | kg | 93 | | 141 | |
| Gross weight | Monobloc Unit | kg | 104 | | 154 | |
| Operating temperature range | Cooling | °C | -5 ~ 43 | | | |
| | Heating | °C | -25 ~ 35 | | | |
| | DHW(tank) | °C | -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 | 117/78/36 | | 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.

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

Specification-Monoblock

| Model name | | | 12kW | 14kW | 16kW |
|---|--------------------------------|--------|------------------|------------------|------------------|
| Model | | | ACHP-H12/4R2HA-M | ACHP-H14/4R2HA-M | ACHP-H16/4R2HA-M |
| Power supply | | V/Ph/H | 220-240/1/50 | | |
| Heating2 | Capacity | kW | 12 | 14 | 15.1 |
| | Rated input | kW | 2.45 | 2.92 | 3.21 |
| | COP | | | 4.9 | 4.8 |
| Heating3 | Capacity | kW | 12 | 14 | 15.1 |
| | Rated input | kW | 3.69 | 4.38 | 4.79 |
| | COP | | | 3.25 | 3.2 |
| Cooling4 | Capacity | kW | 12 | 14 | 16 |
| | Rated input | kW | 2.67 | 3.89 | 4.10 |
| | EER | | | 4.5 | 3.6 |
| Cooling5 | Capacity | kW | 11.5 | 12.7 | 14 |
| | Rated input | kW | 3.8 | 4.38 | 5.09 |
| | EER | | | 3.05 | 2.9 |
| Seasonal space heating energy efficiency class ⁷ | LWT at 35°C | | A+++ | A+++ | A+++ |
| | LWT at 55°C | | A+++ | A+++ | A+++ |
| SCOP6 | LWT at 35°C | | 4.725 | 4.725 | 4.775 |
| | LWT at 55°C | | 3.825 | 3.825 | 3.825 |
| Water pump | Pump head | m | 9 | | |
| | Max Flow | m³/h | 4.5 | | |
| | Adapter diameter | | DN25 | | |
| sound pressure level | Monobloc Unit | dB(A) | 45 | 46 | 47 |
| Sound power level | Monobloc Unit | dB | 57 | 57 | 58 |
| Packed dimensions (W×D×H) | Monobloc Unit | mm | 1355*545*1210 | | |
| Body dimensions (W×D×H) | Monobloc Unit | mm | 1280*450*1040 | | |
| Net weight | Monobloc Unit | kg | 156 | | |
| Gross weight | Monobloc Unit | kg | 169 | | |
| Operating temperature range | Cooling | °C | -5 ~ 43 | | |
| | Heating | °C | -25 ~ 35 | | |
| | DHW(tank) | °C | -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 | 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.
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 6. Seasonal space heating energy efficiency class tested in average climate conditions.
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Specification-Monoblock

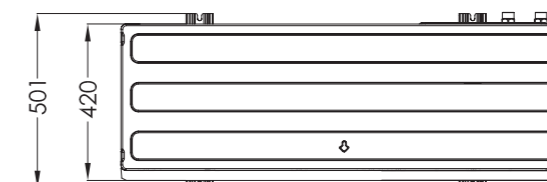
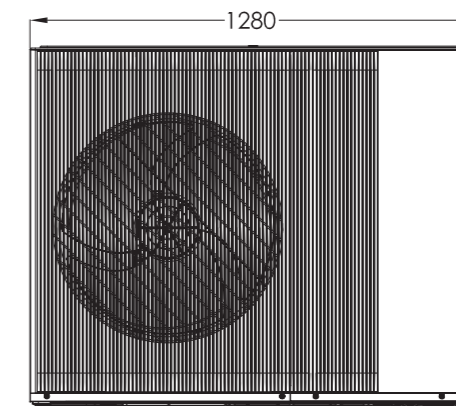
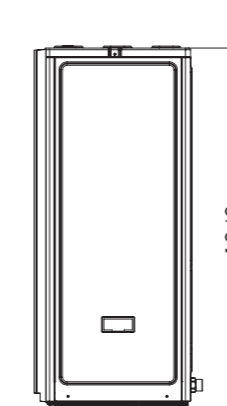
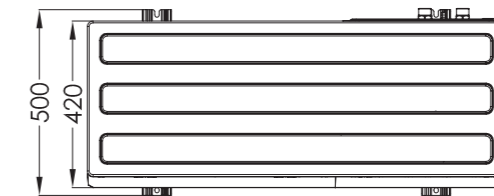
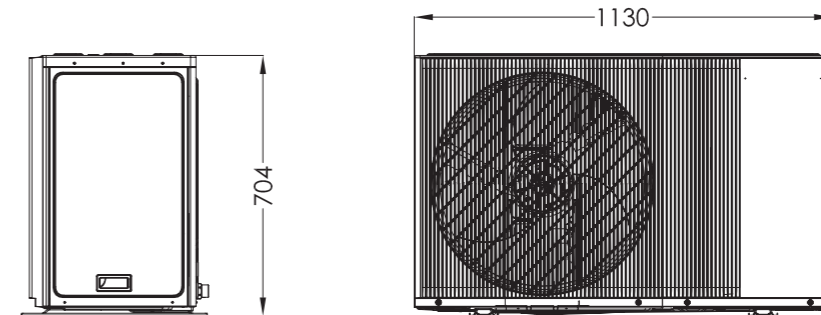
| Model name | | | 8kW | 10kW | 12kW | 14kW | 16kW |
|---|---------------------------|--------|------------------|------------------|------------------|------------------|------------------|
| Model | | | ACHP-H08/5R2HA-M | ACHP-H10/5R2HA-M | ACHP-H12/5R2HA-M | ACHP-H14/5R2HA-M | ACHP-H16/5R2HA-M |
| Power supply | | V/Ph/H | 380-415/3/50 | | | | |
| Heating2 | Capacity | kW | 8.4 | 10.0 | 12 | 14 | 15.1 |
| | Rated input | kW | 1.68 | 2.08 | 2.45 | 2.92 | 3.21 |
| | COP | | 5.0 | 4.8 | 4.9 | 4.8 | 4.7 |
| Heating3 | Capacity | kW | 7.8 | 9.5 | 12 | 14 | 15.1 |
| | Rated input | kW | 2.36 | 2.92 | 3.69 | 4.38 | 4.79 |
| | COP | | 3.3 | 3.25 | 3.25 | 3.2 | 3.15 |
| Cooling4 | Capacity | kW | 8.3 | 10.0 | 12 | 14 | 16 |
| | Rated input | kW | 1.61 | 2.11 | 2.67 | 3.89 | 4.10 |
| | EER | | 5.15 | 4.75 | 4.5 | 3.6 | 3.9 |
| Cooling5 | Capacity | kW | 7.5 | 8.9 | 11.5 | 12.7 | 14 |
| | Rated 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 class ⁷ | LWT at 35°C | | A+++ | A+++ | A+++ | A+++ | A+++ |
| | LWT at 55°C | | A+++ | A+++ | A+++ | A+++ | A+++ |
| SCOP6 | LWT at 35°C | | 5.15 | 5.15 | 4.725 | 4.725 | 4.775 |
| | LWT at 55°C | | 3.875 | 3.925 | 3.825 | 3.825 | 3.825 |
| Water pump | Pump head | m | 9 | | | | |
| | Max Flow | m³/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 |
| Packed dimensions (W×D×H) | Monobloc Unit | mm | 1355*545*1210 | | | 1355*545*1210 | |
| Body dimensions (W×D×H) | Monobloc Unit | mm | 1280*450*1040 | | | 1280*450*1040 | |
| Net weight | Monobloc Unit | kg | 141 | | | 156 | |
| Gross weight | Monobloc Unit | kg | 154 | | | 169 | |
| Operating temperature range | Cooling | °C | -5 ~ 43 | | | | |
| | Heating | °C | -25 ~ 35 | | | | |
| | DHW(tank) | °C | -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.
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 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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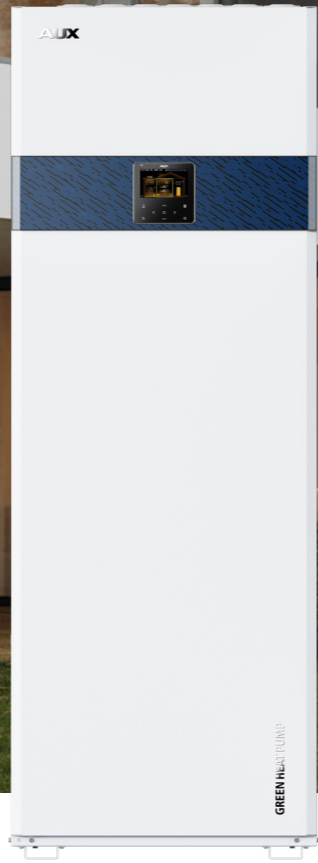
Dimension

ODU 4-6kW

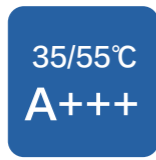


HEAT PUMP

-R290 All In One Split



Remote Upgrade



High Efficiency



10 Years Without Corrosion



Good Insulation
24h ↓ 7.5°C



Large Tank

Feature

► New appearance

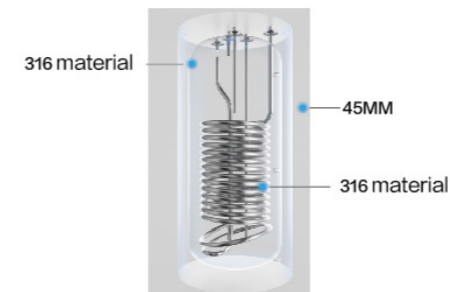
Family style appearance, beautiful and generous, High product identification

► Durable and long-lasting

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

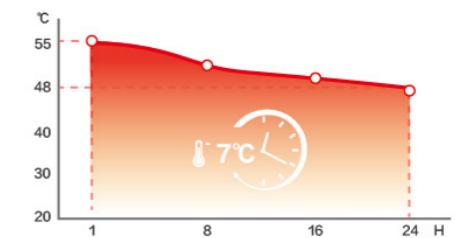
► Durable and long-lasting

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



► High energy efficiency

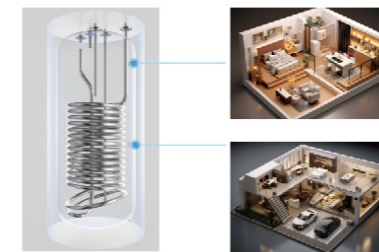
Big compressor, big condensor, big plate heat exchanger, the SCOP can achieve A+++ at 35 °C and 55 °C , and the ACS can reach A+



*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



Feature

► Safety operation

Build in water and gas separator and automatic exhaust valve on the outdoor unit, this can 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

► Build in 3-way valve

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



► Low noise operation

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

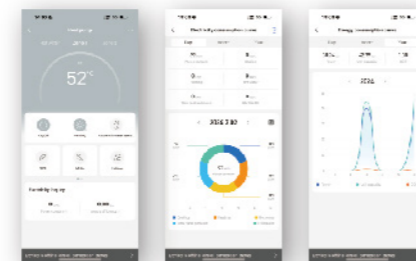
Low noise variable frequency water pump used in the indoor unit, operating noise as low as 30dB of 1m



*Data Source: AUX Performance Lab, 2023.10.16

► Energy consumption display is more detailed

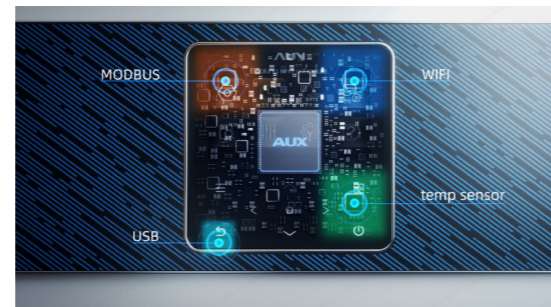
The power consumption of outdoor units, water pumps, electric heater, and water tank electric heater is displayed separately, convenient for users to manage energy consumption



► Multifunctional wired controller

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

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



Feature

► 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 series

The water tank has 190L, can meet the needs of 2-6 households

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

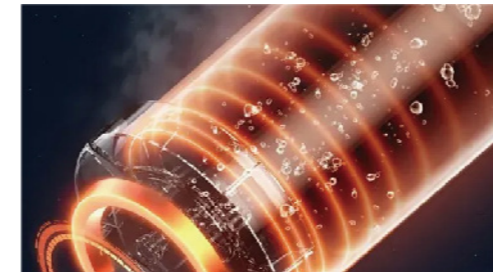
► Easy to clean

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

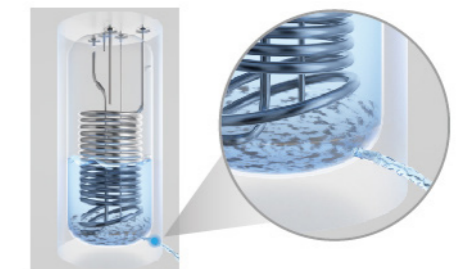
Reserve a drainage outlet at the bottom of the water tank, users are easier to clean and empty

► Powerful mode

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



*Data Source: AUX Laboratory, 2024.04



► Small installation space

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 | | | | 8kW | | 10kW | |
|---|---------------------------------------|--------------|------|------------------|------|------------------|--|
| Model | | | | ACHA-H08/4R2EA19 | | ACHA-H10/4R2EA19 | |
| Power supply | Monobloc Unit | V/Ph/Hz | | 220-240/1/50 | | | |
| | Capacity | kW | | 8.1 | 9.8 | | |
| Heating2 | Rated input | kW | | 1.62 | 2.04 | | |
| | COP | | | 5 | 4.8 | | |
| | Capacity | kW | | 7.6 | 9.4 | | |
| Heating3 | Rated input | kW | | 2.30 | 2.89 | | |
| | COP | | | 3.3 | 3.25 | | |
| | Capacity | kW | | 8.1 | 9.8 | | |
| Cooling4 | Rated input | kW | | 1.57 | 2.06 | | |
| | EER | | | 5.15 | 4.75 | | |
| | Capacity | kW | | 7.4 | 8.8 | | |
| Cooling5 | Rated input | kW | | 2.14 | 2.71 | | |
| | EER | | | 3.45 | 3.25 | | |
| | Capacity | kW | | 7.4 | 8.8 | | |
| Seasonal space heating energy efficiency class ⁷ | LWT at 35°C | | | A+++ | A+++ | | |
| | LWT at 55°C | | | A+++ | A+++ | | |
| SCOP6 | LWT at 35°C | | | 5.1 | 5.1 | | |
| | LWT at 55°C | | | 3.85 | 3.85 | | |
| DHW energy efficiency | Water heating energy efficiency class | | | A+ | A+ | | |
| | COPDHW | | | 2.95 | 2.95 | | |
| | Declared load profile | | | L | | | |
| Water pump | Pump head | m | | 9 | 9 | | |
| | Max Flow | m³/h | | 4.5 | 4.5 | | |
| | Adapter diameter | | | DN25 | DN25 | | |
| Refrigerant(R290) | Factory charge | kg | | 0.85 | 0.85 | | |
| Sound pressure level | Outdoor Unit | dB(A) | | 44 | 44 | | |
| | Indoor Unit | dB(A) | | 31 | | | |
| Sound power level | Outdoor Unit | dB | | 57 | 57 | | |
| | Indoor Unit | dB | | 43 | | | |
| Packed dimensions (W×D×H) | Outdoor Unit | mm | | 1355*545*1210 | | | |
| | Indoor Unit | mm | | 700*682*1835 | | | |
| Body 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 | | | |
| | Domestic hot water | °C | | -25 ~ 43 | | | |
| Setting water temperature range | Cooling | °C | | 5 ~ 25 | | | |
| | Heating | °C | | 25 ~ 80 | | | |
| | Domestic hot water | °C | | 30 ~ 75 | | | |
| Water circuit | Piping connections | inch | | G1"BSP | | | |
| | DHW Piping connections | inch | | G3/4"BSP | | | |
| | Safety valve set pressure | MPa | | 0.3 | | | |
| Water circuit | Flow switch | m³/h | | 0.6 | | | |
| | Expansion | Volume | L | 8 | | | |
| | Capacity of the back-up heater | kW | | 3 | | | |
| | Water side | Type | | Plate type | | | |
| Stuffing Quantity | 40H/40/20 | Outdoor Unit | Unit | 68/33/16 | | | |
| | | Outdoor Unit | Unit | 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

All In One Split

| Model name | | | | 12kW | | 14kW | | 16kW | |
|---|---------------------------------------|--------------|------|------------------|-------|------------------|-------|------------------|--|
| Model | | | | ACHA-H12/4R2EA19 | | ACHA-H14/4R2EA19 | | ACHA-H16/4R2EA19 | |
| Power supply | Monobloc Unit | V/Ph/Hz | | 220-240/1/50 | | | | | |
| | Capacity | kW | | 11.6 | 13.6 | | 15.1 | | |
| Heating2 | Rated input | kW | | 2.37 | 2.83 | | 3.21 | | |
| | COP | | | 4.9 | 4.8 | | 4.7 | | |
| | Capacity | kW | | 11.5 | 14 | | 14.8 | | |
| Heating3 | Rated input | kW | | 3.54 | 4.38 | | 4.70 | | |
| | COP | | | 3.25 | 3.2 | | 3.15 | | |
| | Capacity | kW | | 11.6 | 13.6 | | 15.8 | | |
| Cooling4 | Rated input | kW | | 2.58 | 3.78 | | 4.05 | | |
| | EER | | | 4.5 | 3.6 | | 3.9 | | |
| | Capacity | kW | | 11.1 | 12.5 | | 14 | | |
| Cooling5 | Rated input | kW | | 3.6 | 4.31 | | 5.09 | | |
| | EER | | | 3.05 | 2.9 | | 2.75 | | |
| | Capacity | kW | | 11.1 | 12.5 | | 14 | | |
| Seasonal space heating energy efficiency class ⁷ | LWT at 35°C | | | A+++ | A+++ | | A+++ | | |
| | LWT at 55°C | | | A+++ | A+++ | | A+++ | | |
| SCOP6 | LWT at 35°C | | | 4.71 | 4.71 | | 4.75 | | |
| | LWT at 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 | Pump head | m | | 9 | 9 | | 9 | | |
| | Max Flow | m³/h | | 4.5 | 4.5 | | 4.5 | | |
| | Adapter diameter | | | DN25 | DN25 | | 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 | | | | | |
| Packed dimensions (W×D×H) | Outdoor Unit | mm | | 1355*545*1210 | | | | | |
| | Indoor Unit | mm | | 700*682*1835 | | | | | |
| Body 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 | | | | | |
| | Domestic hot water | °C | | -25 ~ 43 | | | | | |
| Setting water temperature range | Cooling | °C | | 5 ~ 25 | | | | | |
| | Heating | °C | | 25 ~ 80 | | | | | |
| | Domestic hot water | °C | | 30 ~ 75 | | | | | |
| Water circuit | Piping connections | inch | | G1"BSP | | | | | |
| | DHW Piping connections | inch | | G3/4"BSP | | | | | |
| | Safety valve set pressure | MPa | | 0.3 | | | | | |
| Water circuit | Flow switch | m³/h | | 0.6 | | | | | |
| | Expansion | Volume | L | 8 | | | | | |
| | Capacity of the back-up heater | kW | | 3 | | | | | |
| | Water side | Type | | Plate type | | | | | |
| Stuffing Quantity | 40H/40/20 | Outdoor Unit | Unit | 68/33/16 | | | | | |
| | | Outdoor Unit | Unit | 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

All In One Split

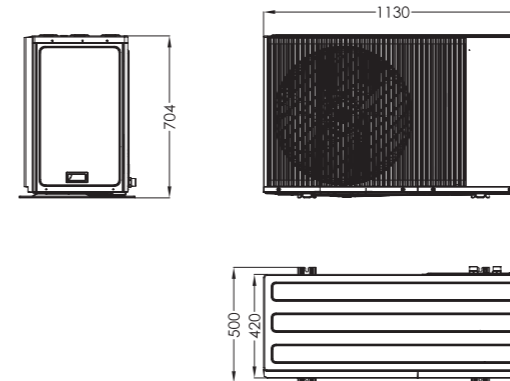
| Model name | | | | 12kW | 14kW | 16kW |
|---|---------------------------------------|--------------|---------------|------------------|------------------|------------------|
| Model | | | | ACHA-H12/5R2EA19 | ACHA-H14/5R2EA19 | ACHA-H16/5R2EA19 |
| Power supply | Monobloc Unit | V/Ph/Hz | 350-415/3/50 | | | |
| | Capacity | kW | 11.6 | 13.6 | 15.1 | |
| Heating2 | Rated input | kW | 2.37 | 2.83 | 3.21 | |
| | COP | | 4.9 | 4.8 | 4.7 | |
| | Capacity | kW | 11.5 | 14 | 14.8 | |
| Heating3 | Rated input | kW | 3.54 | 4.38 | 4.70 | |
| | COP | | 3.25 | 3.2 | 3.15 | |
| | Capacity | kW | 11.6 | 13.6 | 15.8 | |
| Cooling4 | Rated input | kW | 2.58 | 3.78 | 4.05 | |
| | EER | | 4.5 | 3.6 | 3.9 | |
| | Capacity | kW | 11.1 | 12.5 | 14 | |
| Cooling5 | Rated input | kW | 3.6 | 4.31 | 5.09 | |
| | EER | | 3.05 | 2.9 | 2.75 | |
| | LWT at 35°C | | A+++ | A+++ | A+++ | |
| Seasonal space heating energy efficiency class ⁷ | LWT at 55°C | | A+++ | A+++ | A+++ | |
| | LWT at 35°C | | 4.71 | 4.71 | 4.75 | |
| SCOP6 | LWT at 55°C | | 3.825 | 3.825 | 3.825 | |
| | Water heating energy efficiency class | | A+ | A+ | A+ | |
| DHW energy efficiency | COPDHW | | 2.88 | 2.88 | 2.88 | |
| | Declared load profile | | L | | | |
| | Pump head | m | 9 | 9 | 9 | |
| Water pump | Max Flow | m³/h | 4.5 | 4.5 | 4.5 | |
| | Adapter diameter | | DN25 | DN25 | 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 | | | |
| Packed dimensions (W×D×H) | Outdoor Unit | mm | 1355*545*1210 | | | |
| | Indoor Unit | mm | 700*682*1835 | | | |
| Body 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 | | | |
| | Domestic hot water | °C | -25 ~ 43 | | | |
| Setting water temperature range | Cooling | °C | 5 ~ 25 | | | |
| | Heating | °C | 25 ~ 80 | | | |
| | Domestic hot water | °C | 30 ~ 75 | | | |
| Water circuit | Piping connections | inch | G1"BSP | | | |
| | DHW Piping connections | inch | G3/4"BSP | | | |
| | Safety valve set pressure | MPa | 0.3 | | | |
| | Flow switch | m³/h | 0.6 | | | |
| | Expansion | Volume | L | 8 | | |
| | Capacity of the back-up heater | kW | 3 | | | |
| | Water side | Type | Plate type | | | |
| Stuffing Quantity | 40H/40/20 | Outdoor Unit | Unit | 68/33/16 | | |
| | | Outdoor Unit | Unit | 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 Note5.

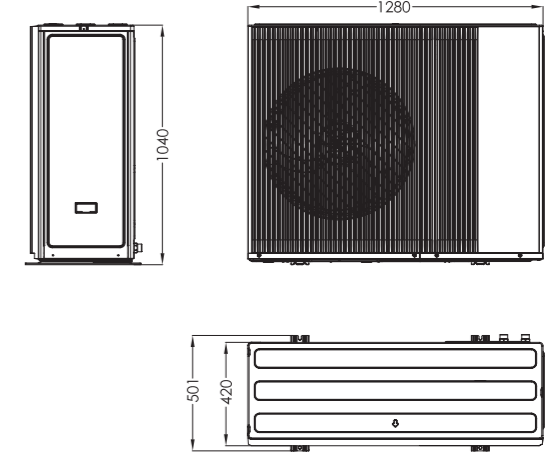
Remarks:
 1. Data from AUX lab, Data may change according to test surroundings, AUX reserves right of explanation on data
 2. All specifications are subject to change by the manufacturer without prior notice

Dimension

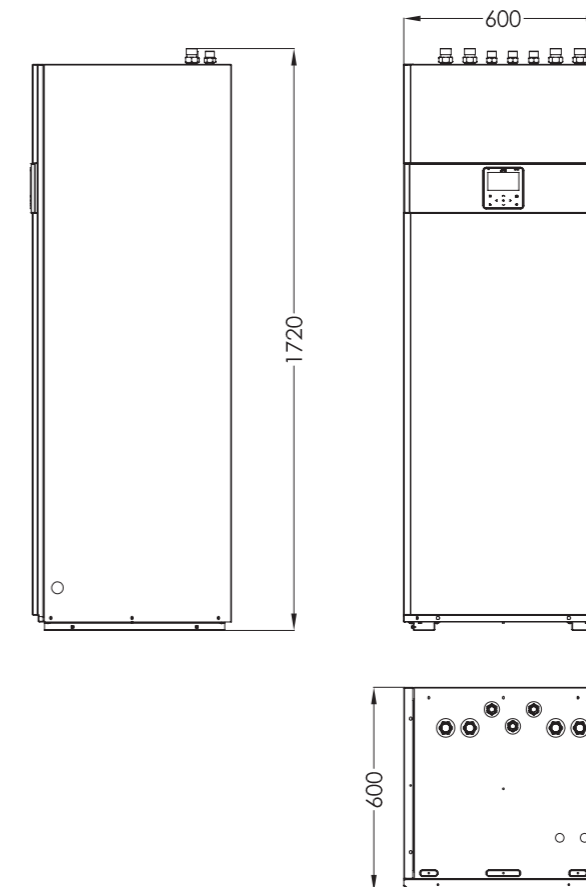
ODU 4-6kW



ODU 8-16kW



IDU



HEAT PUMP

-R32 Split



Feature

► Wide operation range

Heating mode -25 °C ~35 °C ,Domestic hot water mode -24°C ~43°C
cooling mode -5 °C ~52 °C ,Can meet the usage needs of various extreme situations



*Data Source: AUX Performance Lab,2022.04.27 , Report numbe: PZJXS220418004-01

► Energy Efficiency

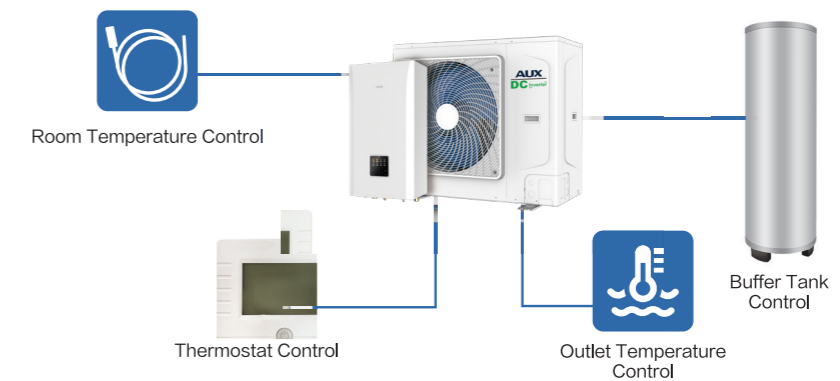
The energy efficiency grade for whole series of Low Average working conditions meets A+++, and the energy efficiency grade of Medium Average meets A++.



*Data Source:keymark , Patent No: 011-1W0587

► Flexibility

According to the actual installation conditions and using habits, users can choose one of the four control methods: outlet temperature control, indoor temperature sensor control, indoor temperature controller control, and buffer tank control to make the room comfortable and meet the users requirements.

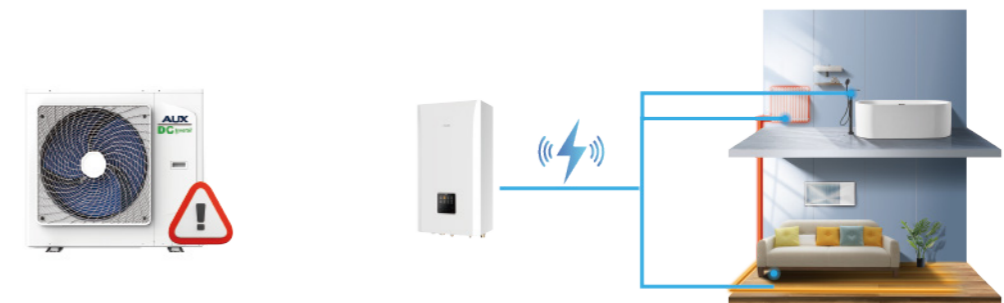


► Integrated design

Integrated PCB design, outdoor units 1 piece and indoor unit 1 piece,low probability of damage and easy to replace

► Emergency function

When outdoor units have fault, need to be shut down and maintenance, Indoor unit will turn on the electric heater, gas boiler and tank electric heater to meet the heating and domestic hot water requirement



Intelligent operation



Intelligent temperature control



Intelligent health



Intelligent control



Intelligent combination

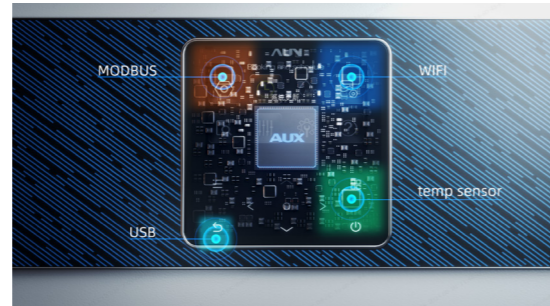
Feature

► Intelligent wired controller

Build in WIFI module and MODBUS module, no need additional modules can be use APP and BMS system

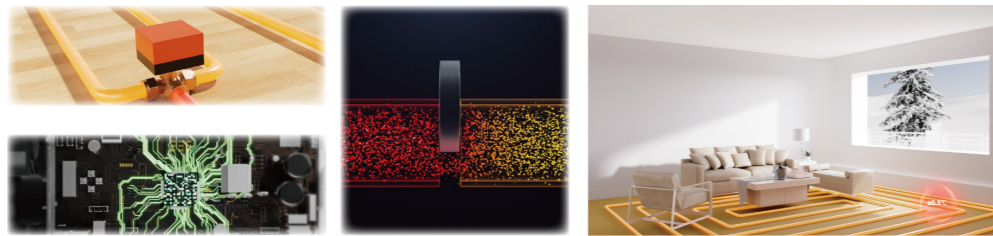
Build in temp sensor, can be installed the wired controller to indoor to detect and control the room temp

Build in USB port, can be use this port to upgrade the program, to copy and write parameters



► 0-10V mixed valve

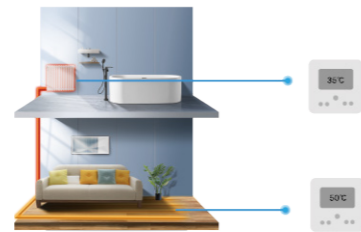
Use 0-10V mixed valve to control the inlet water temp of under floor heating, make the inlet temp of underfloor heating is more stable, and the room temp is more stable



► Double zone

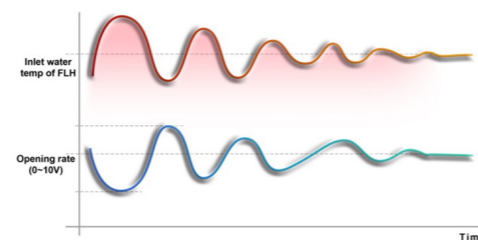
Double zone can be controlled separately, more flexible and energy saving

Both two zones can be controlled by thermostat, and the thermostat has high and low voltage type to choose, to cope with different scenarios



► Intelligent water temp control

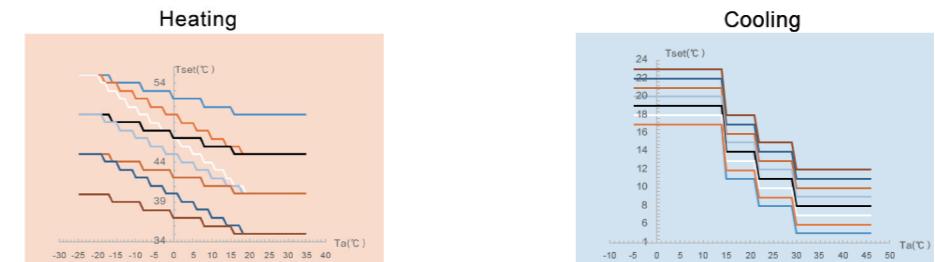
When users use room temp to control the heat pump, the unit can be adjust water temp automatically according the room temp to ensure the room temp stable and living comfortable



Feature

► ECO mode

The double temperature zone can control the inlet water temperature independently and automatically according to the change of ambient temperature



► Intelligent

The heat pump unit can be linked with the electric heating of water tank, solar energy, gas heater, etc. It can realize the functions of heat pump and electric heating of water tank, solar energy combined heating of hot water, and heat pump and gas furnace combined heating



► Capacity and power consumption display

ired controller, APP can be display the real-time and one hour average capacity and energy efficiency

The APP can display the power consumption of major components such as compressors, electric heaters, and water tank electric heaters separately, users can adjust the machine operation status in a timely manner based on the power consumption status of the main components to save usage costs



Specification-Split-Outdoor

| Model name | | | 6kW | 8kW | 10kW | 12kW | 14kW | 16kW |
|---|-------------------|-------|-------------------|-------------------|-------------------|--|--|--|
| Model | Outdoor | | ACHP-H06/4R3HB-SO | ACHP-H08/4R3HB-SO | ACHP-H10/4R3HB-SO | ACHP-H12/4R3HA-SO ACHP-H12/5R3HA-SO | ACHP-H14/4R3HA-SO ACHP-H14/5R3HA-SO | ACHP-H16/5R3HA-SO ACHP-H16/4R3HB-SO |
| ODU Power Supply | V~,Hz,Ph | | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 380-415/3/50 | 220-240/1/50 380-415/3/50 | 380-415/3/50 220-240/1/50 |
| ODU Max. Input Consumption | kW | | 4.14 | 4.47 | 4.47 | 9.2 | 9.2 | 9.2 |
| Heating2 | Capacity | kW | 6.25 | 8.4 | 10 | 12.2 | 14.5 | 16.1 |
| | Rated input | kW | 1.25 | 1.62 | 2 | 2.44 | 3.05 | 3.46 |
| | COP | | 5 | 5.2 | 5 | 5.0 | 4.75 | 4.60 |
| Heating3 | Capacity | kW | 6.4 | 8.3 | 10 | 12 | 14 | 16.1 |
| | Rated input | kW | 2.13 | 2.60 | 3.23 | 3.85 | 4.64 | 5.31 |
| | COP | | 3 | 3.19 | 3.1 | 3.12 | 3.02 | 3.0 |
| Cooling4 | Capacity | kW | 6.6 | 8.45 | 10 | 12 | 13.6 | 15 |
| | Rated input | kW | 1.35 | 1.67 | 2.08 | 3 | 3.78 | 4.41 |
| | EER | | 4.9 | 5.06 | 4.8 | 4 | 3.6 | 3.4 |
| Cooling5 | Capacity | kW | 7.05 | 7.45 | 8.3 | 11.7 | 12.8 | 14 |
| | Rated input | kW | 2.35 | 2.20 | 2.52 | 4.3 | 5.00 | 5.7 |
| | EER | | 3 | 3.39 | 3.3 | 2.75 | 2.56 | 2.46 |
| Seasonal space heating energy efficiency class ⁷ | LWT at 35°C | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| | LWT at 55°C | | A++ | A++ | A++ | A++ | A++ | A++ |
| SCOP6 | LWT at 35°C | | 4.96 | 5.22 | 5.2 | 4.85 | 4.85 | 4.85 |
| | LWT at 55°C | | 3.53 | 3.37 | 3.5 | 3.50 | 3.50 | 3.50 |
| MOP(Maximum overcurrent protection) | A | | 18 | 19 | 19 | 14 | 14 | 14 |
| Air Flow Volume | m ³ /h | | 2800 | 4000 | 4650 | 4650 | 4650 | 4650 |
| sound pressure level | H | dB(A) | 38 | 45 | 49 | 49 | 50 | 54 |
| sound power level | H | dB(A) | 58 | 58 | 63 | 64 | 65 | 68 |
| Dimension(W×D×H) | Net | mm | 900×350×700 | 1060×480×870 | 1060×480×870 | 1060×480×870 | 1060×480×870 | 1060×480×870 |
| | Packing | mm | 1020×430×770 | 1100×545×980 | 1100×545×980 | 1100×545×980 | 1100×545×980 | 1100×545×980 |
| Weight | Net | kg | 51 | 67 | 67 | 85 | 85 | 85 |
| | Gross | kg | 55 | 73 | 73 | 93 | 93 | 93 |
| Refrigerant Piping | Liquid Side | mm | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas Side | mm | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 |
| | MAX length | m | 30 | 30 | 30 | 30 | 30 | 30 |
| | MIN length | m | 2 | 2 | 2 | 2 | 2 | 2 |
| "Installation height difference" | ODU above | m | 20 | 20 | 20 | 20 | 20 | 20 |
| | ODU below | m | 20 | 20 | 20 | 20 | 20 | 20 |
| Operating temperature range | Cooling | °C | -5~52 | -5~52 | -5~52 | -5~52 | -5~52 | -5~52 |
| | Heating | °C | -25~35 | -25~35 | -25~35 | -25~35 | -25~35 | -25~35 |
| | DHW | °C | -25~43 | -25~43 | -25~43 | -25~43 | -25~43 | -25~43 |
| Stuffing Quantity | 20/40/40H | Unit | 87/183/183 | 40/84/84 | 40/84/84 | 40/84/84 | 40/84/84 | 40/84/84 |

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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 2.All specifications are subject to change by the manufacturer without prior notice

Specification-Split-Hydraulic module

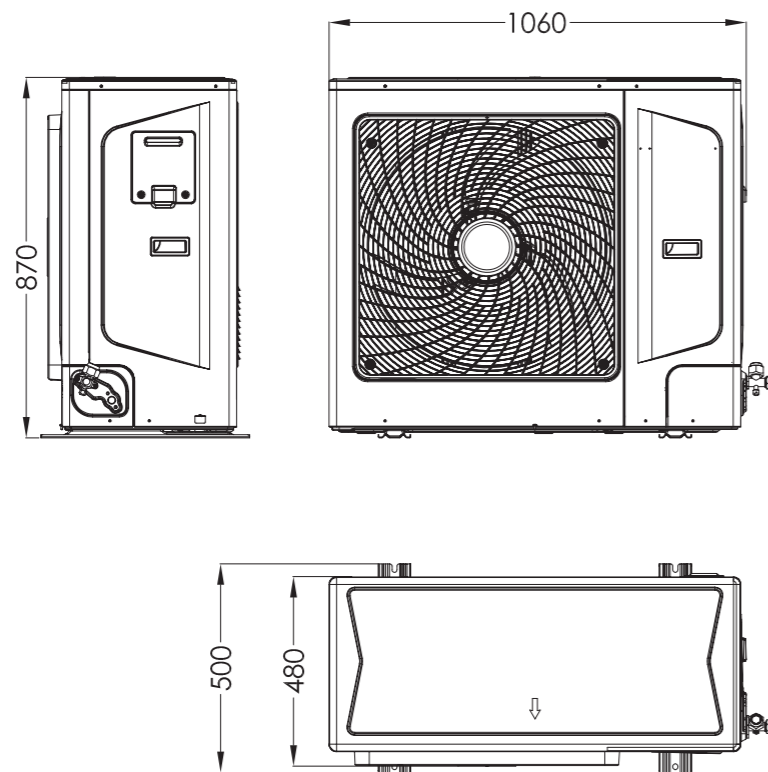
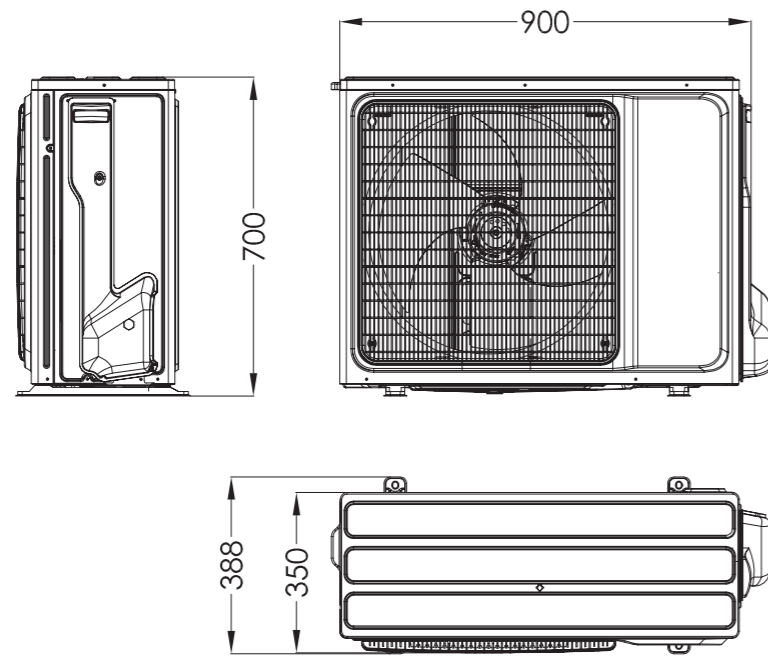
| Model name | | | 6kW | 8kW | 10kW | 12kW | 14kW | 16kW |
|---------------------------------|--------------------------------|-------------------|----------------------|----------------------|--|--|--|--|
| market model | Indoor | | ACHP-H06/4R3HB3-SI | ACHP-H08/4R3HB3-SI | ACHP-H10/5R3HB9-SI ACHP-H10/4R3HB3-SI | ACHP-H12/5R3HB9-SI ACHP-H12/4R3HB3-SI | ACHP-H14/5R3HB9-SI ACHP-H14/4R3HB3-SI | ACHP-H16/5R3HB9-SI ACHP-H16/4R3HB3-SI |
| IDU Power Supply | V~,Hz,Ph | | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 380-415/3/50 | 220-240/1/50 380-415/3/50 | 220-240/1/50 380-415/3/50 | 220-240/1/50 380-415/3/50 |
| IDU Max. Input Consumption | kW | | 3.09 | 3.09 | 3.09 | 3.09 | 3.09 | 3.09 |
| Plate heat exchanger | Dimension (W*H*D) | mm | 331*117*70 | 332*121*99 | 332*121*99 | 332.5*121*87.4 | 332.5*121*87.4 | 332.5*121*87.4 |
| | Heat exchange area | m ² | 1.58 | 2.32 | 2.32 | 2.794 | 2.794 | 2.794 |
| Water pump | Pump head | | 9m | 9m | 9m | 9m | 9m | 9m |
| | Max Flow | | 4.5m ³ /h | 4.6m ³ /h | 4.6m ³ /h | 4.5m ³ /h | 4.5m ³ /h | 4.5m ³ /h |
| Indoor Unit | Adapter diameter | | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| | Sound Pressure Noise | dB(A) | 30 | 31 | 31 | 31 | 31 | 31 |
| | Sound Power Noise Level | dB(A) | 42 | 43 | 43 | 43 | 43 | 43 |
| | Net Dimension (W*D*H) | mm | 420×270×790 | 420×270×790 | 420×270×790 | 420×270×790 | 420×270×790 | 420×270×790 |
| Setting water temperature range | Packing Dimension (W*D*H) | mm | 515×350×1045 | 515×350×1045 | 515×350×1045 | 515×350×1045 | 515×350×1045 | 515×350×1045 |
| | Net Weight | Kg | 38 | 38 | 38 | 38 | 38 | 38 |
| Water circuit | Gross Weight | Kg | 44 | 43 | 43 | 43 | 43 | 43 |
| | Cooling | °C | 5~25 | 5~25 | 5~25 | 5~25 | 5~25 | 5~25 |
| | Heating | °C | 25~65 | 25~65 | 25~65 | 25~65 | 25~65 | 25~65 |
| Refrigerant Pipe | DHW | °C | 25~60 | 25~60 | 25~60 | 25~60 | 25~60 | 25~60 |
| | Piping connections | inch | R1" | R1" | R1" | R1" | R1" | R1" |
| | Safety valve set pressure | MPa | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| | Flow switch | m ³ /h | 0.36 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| | Drainage pipe connection | mm | φ25 | φ25 | φ25 | φ25 | φ25 | φ25 |
| | Expansion tank | L | 8 | 8 | 8 | 8 | 8 | 8 |
| | Capacity of the back-up heater | kW | 3 | 9 | 9 | 9 | 9 | 9 |
| Qty per 20' & 40' & 40HQ | Liquid Side | mm | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 |
| | Gas Side | mm | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Drainage | mm | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Set | | 132/264/322 | 132/264/322 | 132/264/322 | 132/264/322 | 132/264/322 | 132/264/322 | |

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

Dimension

ODU 6kW



IDU

