

# Air To Water Heatpump

Brochure 2026



# Haier

**More Creation, More Possibilities**

Professional, Smart & Healthy Air Solutions Provider

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## **OUR VISION**

To be a globally recognised expert in smart and healthy Air Solutions.

## **OUR MISSION**

To deliver a complete ecosystem of solutions and services through our innovation in smart technologies. Our mission is to provide our users with the very best in cooling & heating comfort, air quality and efficiencies to create the perfect environment what ever the scenario.

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# GLOBAL POSITION



## WORLD'S NO.1 MAJOR APPLIANCES BRAND

Haier has been accredited with being global No.1 in major household appliances by retail sales from 2008-2025, according to data from Euromonitor.



## WORLD'S NO.1 SMART AC BRAND

Haier is the world's No.1 connected air conditioner brand, in retail sales 2025, according to data from Euromonitor.



## TOP 100 MOST VALUABLE BRANDS

Haier is the world's only IoT Ecosystem Brand that has been ranked in the Kantar BrandZ Top 100 Most Valuable Global Brands for six consecutive years.



## TOP 100 GLOBAL CHALLENGERS

With the global landing of the Smart Home ecosystem brand, Haier Smart Home was once again listed on the Fortune Global 500.



## "ESG" INTERNATIONAL AWARDS

Haier has received numerous recognitions for its ESG efforts, including the Sustainable Markets Initiative's 2023 Terra Carta Seal.



## FORTUNE'S MOST ADMIRE COMPANIES

Haier has been named one of the World's Most Admired Companies by Fortune's, making the sixth consecutive year the Company is on this prestigious list.





# GLOBAL NETWORK

Haier currently has 10+ R&D centres, 35 industrial parks, 138 manufacturing centres and 126 marketing centres around the world, reaching out to more than 200 countries and regions and serving 1 billion user households.

Haier has 7 major home appliance brands worldwide: Haier, Casarte, Leader, Hoover, AQUA, Fisher & Paykel, GE Appliances and Candy.

Each of these brands offers the best user experience to various consumer groups in many regions and countries around the world.



**10+N**  
R&D Centers



**126**  
Marketing Centers



**35**  
Industrial Parks



**138**  
Factories



**200+**  
Countries or Regions

# HVAC SOLUTIONS IN EUROPE

Haier's European HVAC operations has been active for over 30 years where we are fully supported by some of the most talented and dedicated partners and teams across Europe including, Italy, Spain, Portugal, UK & IRE, France, Greece, Central Europe and Germany.

These markets carry a wide range of products which includes, Residential & Light Commercial solutions as well as Large Commercial and Heating Solutions, giving us a truly diverse offering to suit various applications from residential to larger Hotels and Retail. Our total production capacity is over 27 million sets per year, supported by 16 Air Conditioning factories with 8 of them being in overseas markets.

This outstanding capacity enables us to continually strive to lead the market in delivering Smart and Healthy solutions across Europe.

Haier HVAC European operations are anchored by two key hubs: Haier Iberia in Barcelona, Spain, serving Spain and other European countries and Haier AC Trading Italy, situated in Revine Lago, which caters to both the Italian and broader European markets.

Recently, the addition of Haier HVAC UK has further strengthened our presence in Europe, contributing to our ongoing growth in the region.

## HVAC EUROPEAN TRAINING HUB

Since 2024, our Training Hub in Barcelona has welcomed over 3000 visitors, including installers, designers and distributors, to strengthen their knowledge of Haier's solutions.

The hub has been specifically designed to have a dedicated room for each portfolio: residential, heating, commercial and from 2024 a brand-new floor has welcomed a training room for new energy solutions. In addition, the new 3rd floor gives the opportunity to both internal and external guests to host meetings and workshops, thanks to an additional meeting room and co-working spaces accessible at all times.



# HVAC EUROPEAN TRAINING HUBS

At Haier, we continue to invest significantly in developing dedicated facilities where HVAC professionals can train, experience, and engage with the full Haier portfolio. Across Europe, we now operate a growing network of training centres supported by our partners, ensuring that installers, distributors, and designers have access to best-in-class technical and product education.

Building on the success of our established HVAC European Training Centre in Barcelona, we have continued to expand our training footprint. Most recently, we have launched new training hubs in Deventer, Netherlands and London, UK, further strengthening our presence across key European markets and bringing hands-on learning even closer to our partners.

Together, our training centres have welcomed thousands of visitors, offering them the opportunity to get closer to the brand and experience our complete portfolio first-hand. The facilities are fully operational and feature dedicated training spaces showcasing products across residential, heating, and commercial applications, delivering a truly hands-on and application-led learning environment.

**Follow us on LinkedIn at: Haier Air Conditioning & Heating – Europe to stay up to date with upcoming events, training sessions, and product innovations.**





# CONNECTED ECOSYSTEM



**A2W HEAT PUMP**



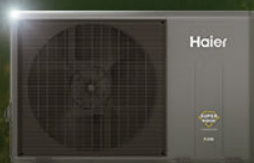
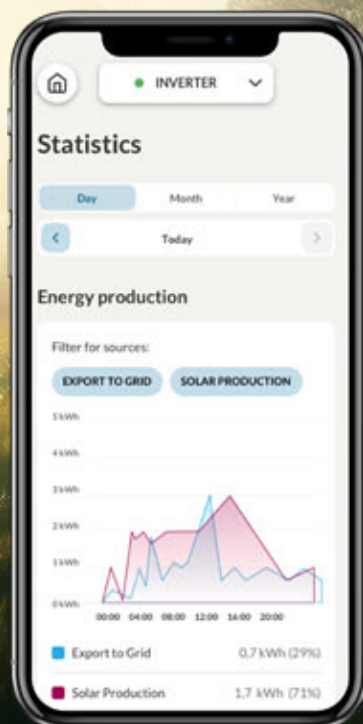
**ENERGY STORAGE**



**HP WATER HEATER**



**A2A HEAT PUMP**



# Haier solutions for renewable energy production and management

Haier has been investing for years in an integrated ecosystem that combines smart applications, renewable energy, and advanced technologies to improve quality of life and reduce environmental impact. The goal is ambitious: to contribute to the realisation of buildings with zero impact by promoting energy efficiency, reduction of CO<sub>2</sub> emissions, and adoption of natural refrigerants and advanced green technologies to fight global warming. Haier commitment to a more sustainable world has been increasingly more evident thanks to the introduction of Haier Energy, the brand-new Haier division dedicated to the manufacturing and distribution of photovoltaic, energy storage, power

conversion system and electric mobility across the European market through specialized distributors and wholesalers. The benefits of utilizing a comprehensive energy management system that encompasses photovoltaic panels, inverters, batteries, heat pump water heaters and ATW systems for domestic hot water, and heat pump air conditioners are significant. This integrated approach allows for seamless control and monitoring of all components through a single application, hOn.

By consolidating these various technologies into one cohesive system, users can optimize energy consumption, enhance efficiency, and reduce

operational costs. Furthermore, the centralized management provided by the hOn app facilitates real-time data analysis and performance tracking, empowering users to make informed decisions regarding their energy usage while contributing to a more sustainable future.



For more scan here



Haier HVAC Solutions boasts a comprehensive portfolio spanning three key sectors: Air Conditioning, Heating and Green Energy. Throughout this portfolio Haier HVAC covers both domestic and commercial solutions but what makes Haier truly unique, is the ability to connect and integrate its range of products to create a one brand solution. Having the ability to do this simplifies all aspects of the supply chain from pre-sales through to after sales support.

The hOn application by Haier can be used to control and manage all Haier products. This gives users complete control over

how they use their energy. The hOn app includes key features such as scheduling the units working time as well as monitoring the energy usage to ensure the system is working to its optimum level.

Haier's one brand solution reinvents the way that domestic and commercial properties consume energy, putting complete control in the hands of the user to ensure all their Haier products are operating in a way that suits the user's lifestyle and environment.





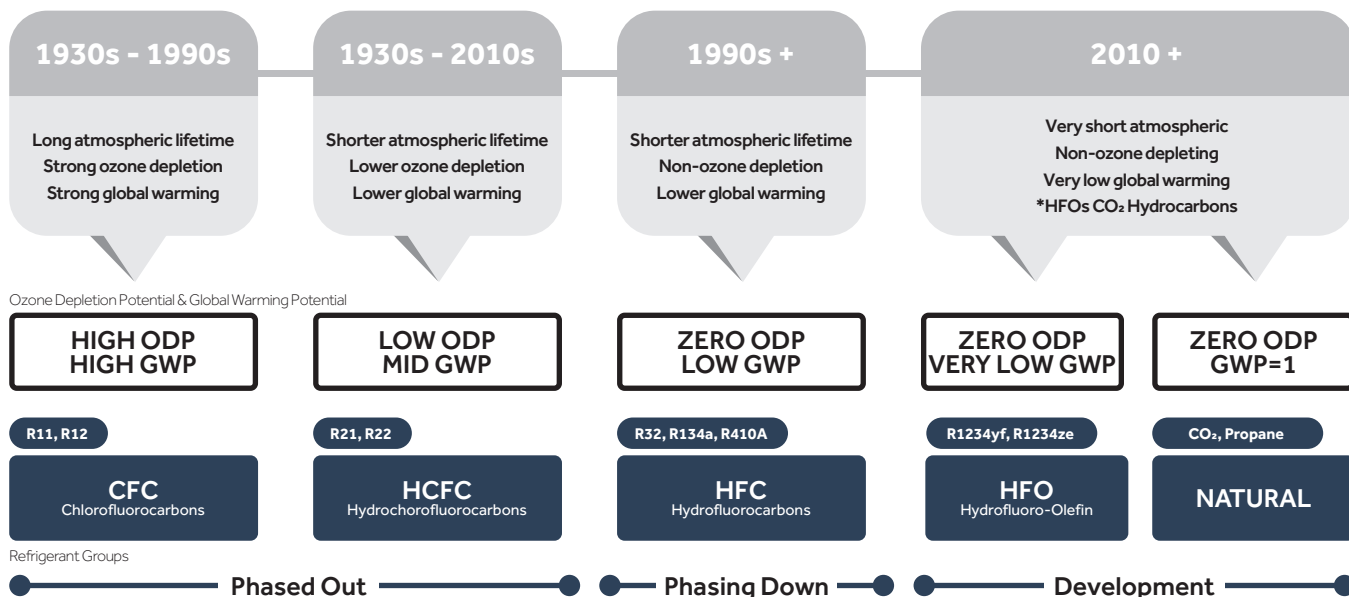
# WHY CHOOSE THE R290 HEAT PUMP RANGE?

The Haier Super Aqua R290 heat pump range is designed to deliver efficient, low carbon heating and hot water solutions for both new build and retrofit properties. Available in Monobloc and Hydro outdoor unit with the option of three indoor units: Wiring center (ATW-03N), Hydro Module and All in One Tank. The range covers outputs from 4kW to 16kW, making it suitable for apartments, family homes and larger residential applications. Using environmentally friendly R290 refrigerant with an ultra low GWP of just 3, the Super Aqua series combines sustainability with high performance, achieving A+++ energy ratings and leaving

water temperatures of up to 80°C. The systems are engineered to provide reliable year round comfort, with stable operation in outdoor temperatures as low as -25°C, while integrated inverter technology can help maximise efficiency and reduce running costs. Additional features include intuitive touchscreen controls, smart connectivity through the hOn app, quiet operation and compact indoor units with integrated domestic hot water storage options. Overall, the Super Aqua range offers a flexible, future ready heating solution that balances comfort, energy efficiency and environmental responsibility.

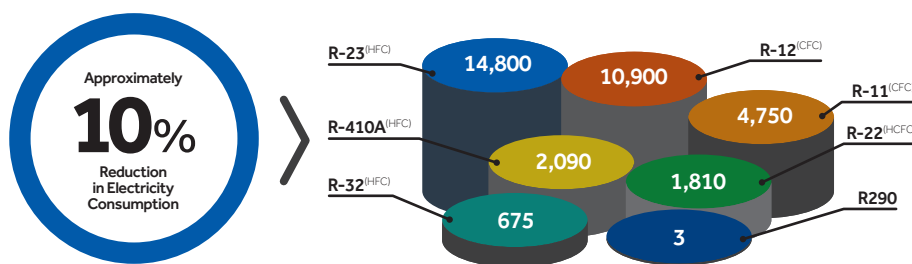


# TRANSITION TOWARDS LOWER GWP REFRIGERANTS

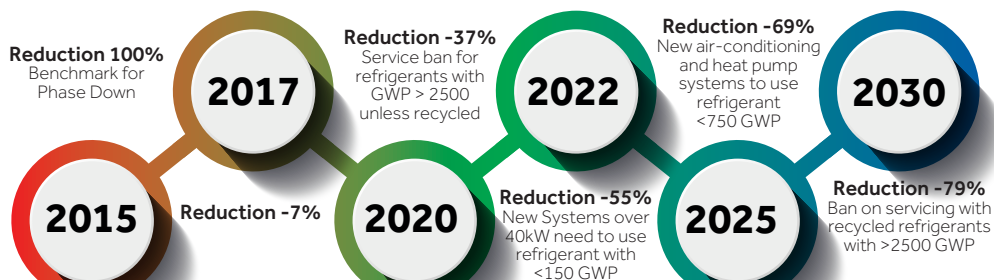
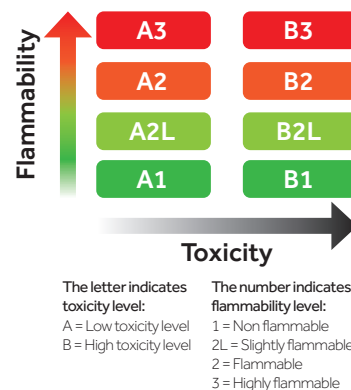


## 100 YEAR GLOBAL WARMING POTENTIAL OF DIFFERENT REFRIGERANTS\*

Source: Values for 100 Global warming potential (GWP) from IPCC Fourth Assessment Report. Comparative 100 year GWP: HFC410A, 2,090; HFC32, 675\*



## SAFETY GROUP



|                                                                                                                         |                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>R290</b><br>Refrigerant type: <b>Natural</b><br>GWP: <b>3</b>   Safety Group: <b>A3</b>                              | <b>R744</b><br><small>(CO<sub>2</sub>)</small><br>Refrigerant type: <b>Natural</b><br>GWP: <b>1</b>   Safety Group: <b>A1</b> |
| <b>R717</b><br><small>(Ammonia)</small><br>Refrigerant type: <b>Natural</b><br>GWP: <b>0</b>   Safety Group: <b>B2L</b> | <b>R32</b><br>Refrigerant type: <b>HFC</b><br>GWP: <b>675</b>   Safety Group: <b>A2L</b>                                      |
| <b>R410A</b><br>Refrigerant type: <b>HFC</b><br>GWP: <b>2090</b>   Safety Group: <b>A1</b>                              |                                                                                                                               |

# R290

## More Friendly To Nature

R290 with zero Ozone Depletion Potential and Low Global Warming Potential is Eco & Ozone-friendly, which reduces the harmful effects of the planet.



Thanks to the excellent thermodynamic performance of R290 and advanced heat pump technology, the new Haier R290 high temperature series helps to reduce carbon emissions and achieve carbon neutrality goals.



Ultimate Comfort



High Efficiency

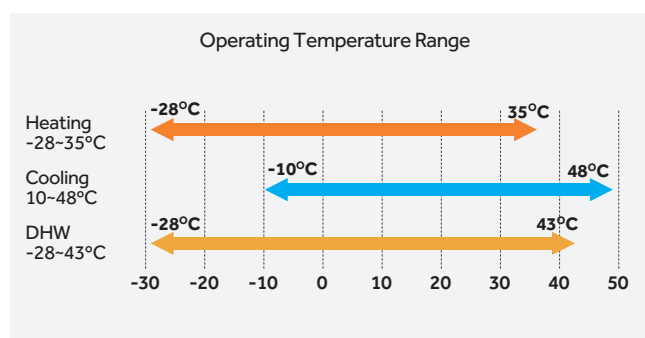


High Reliability

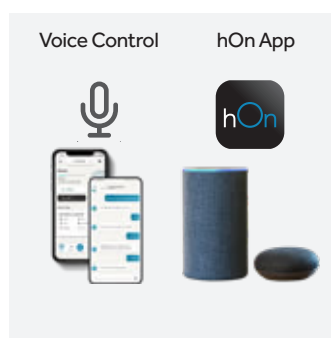


Super Convenience

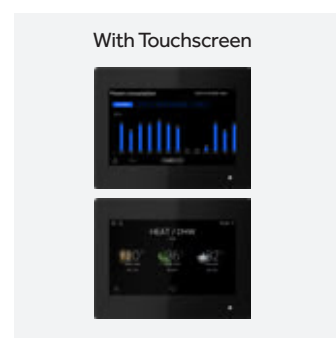
### WIDE TEMPERATURE RANGE



### SMART OPERATION



### ENERGY MONITORING



# ULTIMATE COMFORT



## 2-ZONE CONTROL

When there are different room temperature requirements, two zone temperature control in both heating and cooling circuits is possible. You can maintain two different water temperatures to achieve intelligent control and save energy.



## FAST DHW

When Fast DHW is activated, the backup heater or auxiliary heating source will be turned on at the same time, in combination with the heat pump. In order to reach DHW setting point as soon as possible, the outdoor ambient temperature and compressor running time will not affect this operation.



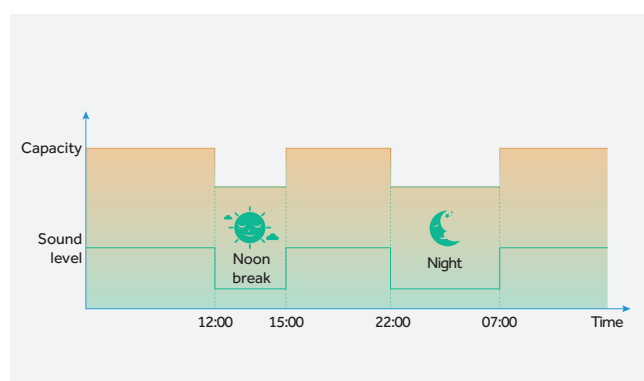
## MAX.80°C HOT WATER

High leaving water temperature of 80°C is guaranteed without using a backup heater when the outdoor temperature is lower than -15°C.



## QUIET MODE

The Quiet Mode can work together with the timer function. To guarantee low sound levels during quiet periods such as night time.



## TURBO MODE

Increase the speed of the compressor to reach the chosen temperature faster.



## AUTO MODE

In Auto mode, the cooling and heating mode is automatically managed according to the outdoor ambient temperature. There is no need to manually set the heat pump operating mode, which is very convenient for the users.

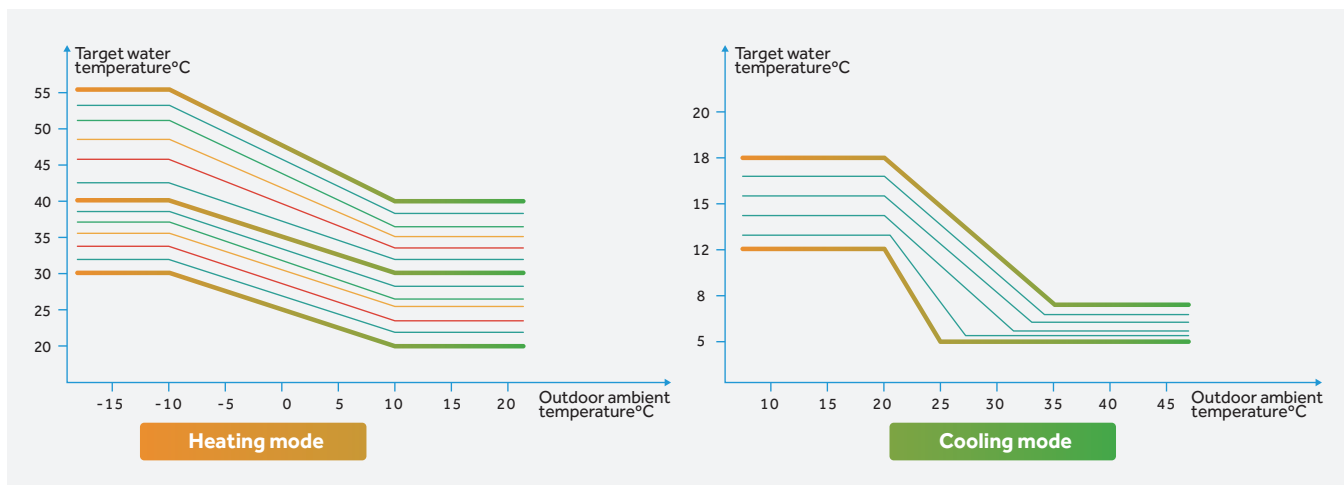


# ULTIMATE COMFORT



## CLIMATE CURVES / WEATHER COMPENSATION

Both heating and cooling water temperatures are optimally configured when considering outdoor temperature, both in comfort and efficiency terms. The Climate curve configuration allows the system to change the outlet water temperature to suit ambient conditions.



## STERILISATION / ANTI-LEGIONELLA

Users can directly turn on the sterilisation function, and set the date and time on the controller. The water of the domestic water cylinder can be automatically heated to 60°C to kill legionella at fixed periods.

Note: Only when the electric heater in the domestic water tank is controlled by Haier unit.



## THE HAIER R290 HEAT PUMP RANGE CAN BE CONTROLLED IN A NUMBER OF WAYS:

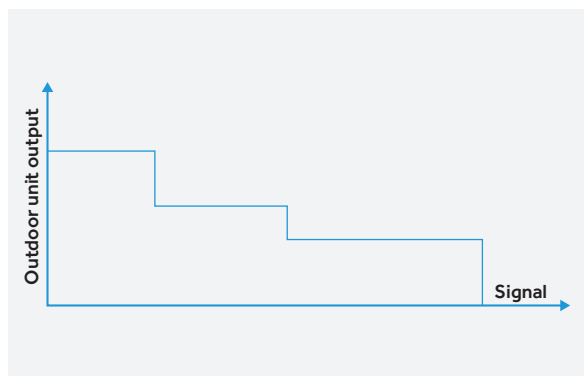
- 1 Using return water temperature in either a fixed or weather compensated setting when connected to a buffer.
- 2 Controlled to heat or cool up to 2 zones either at a fixed or weather compensated water temperature using third party room thermostats with a Volt free signal. Note this configuration is not compatible with the HON app.
- 3 Controlled to heat or cool up to 2 zones either at a fixed or weather compensated water temperature using Haier room thermostats which are compatible with Haier's HON app.

# INTELLIGENCE



## SMART GRID

Based on the signal from power grid company, the outdoor unit will adjust the capacity output.



## MODBUS

The unit integrates the MODBUS RTU communication protocol, it can be connected to 3rd party BMS or BAS directly, no additional Modbus gateway is needed.



## SCHEDULING PROGRAMS

Users can create scheduled programs, including naming the programs, timer on/off operation, mode selection, leaving temperature setting and the frequency. Once the scheduled program is set, the system will run according the pre-set program automatically.

| Scheduling Programs |      |      |       |       |
|---------------------|------|------|-------|-------|
|                     | 0:00 | 8:00 | 17:30 | 24:00 |
| Mon                 | ON   | OFF  | ON    |       |
| Tues                | ON   | OFF  | ON    |       |
| Weds                | ON   | OFF  | ON    |       |
| Thurs               | ON   | OFF  | ON    |       |
| Fri                 | ON   | OFF  | ON    |       |
| Sat                 |      | ON   |       |       |
| Sun                 |      | ON   |       |       |

# INTELLIGENCE



## hOn WIFI

With Haier's integrated hOn Wi-Fi, you can check the running state of heat pump allowing you to have complete flexibility and control.



## AUXILIARY HEATING SOURCE

Allows the system to be combined with a third-party boiler and control the boiler.



## POOL HEATING

Provides control to manage the temperature of the pool water.



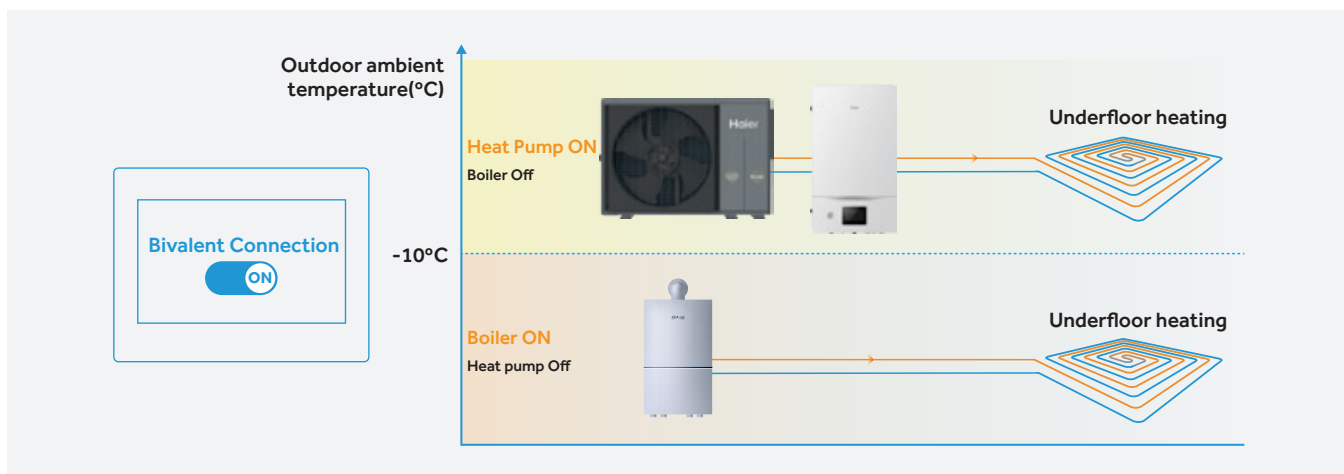
## SMART VACATION

In smart vacation mode, the heat pump will work at its minimal requirement to save energy and costs while you are away.



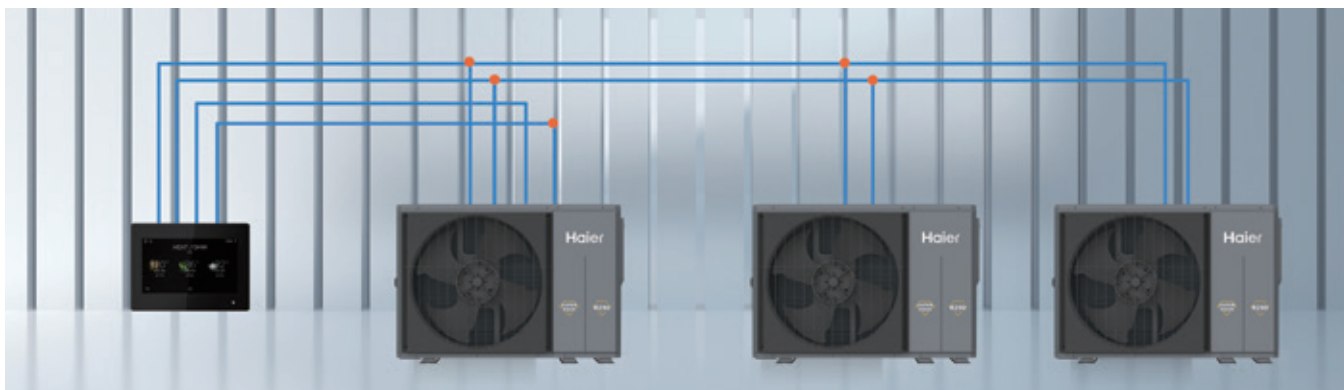
## BIVALENT CONTROL

When the system is combined with a boiler, the 'bivalent connection' can be set by the controller. When bivalent connection is turned on, the heat pump will have full control of all aspects of the system and will run the boiler when required, depending on system design and settings. When bivalent connection is turned off, both boiler and heat pump conduct automatic control.



## CASCADE CONTROL

Max 8 units & can be combined in one system to suitable for larger capacity demands.



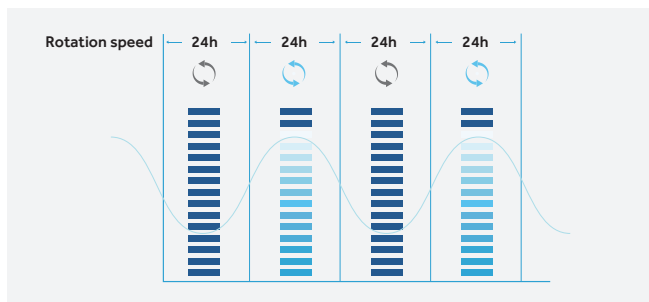


# HIGH RELIABILITY



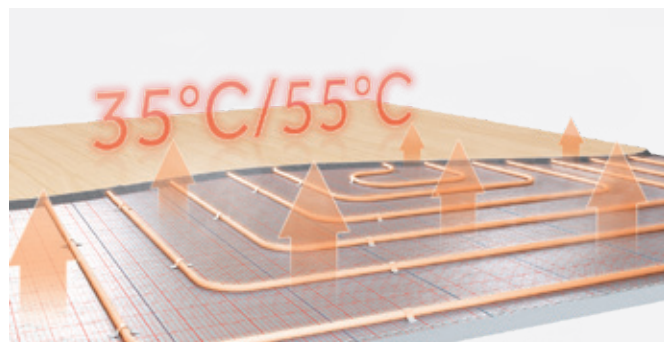
## ANTI-RUST AND CORROSION

The heat pump has an anti corrosion function. The water pump will automatically run for 60s every 24h, as the following curve shows.



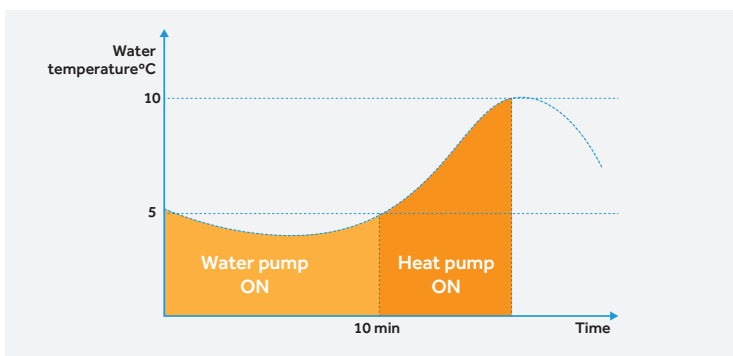
## FLOOR DRYING

Floor drying mode allows the installer to dry out a new floor screed slowly to avoid cracking.



## ANTI-FREEZING

The Haier R290 Heat Pump has an anti freeze function, if the water temperature falls below 5°C the water pump will start. If the water temperature doesn't rise after 10 minutes the heat pump will automatically start.



# SUPER CONVENIENCE



## CHECK ERROR INFORMATION

If errors occur, the service engineer can not only check the current errors, but also the historical error records, which is convenient for fast troubleshooting.



## CHECK SYSTEM PARAMETERS

Many important parameters about the system can be accessed through the 'System Status' function, including the system parameters, indoor and outdoor units parameters. These parameters are helpful to diagnose any potential issues.



# HIGH EFFICIENCY



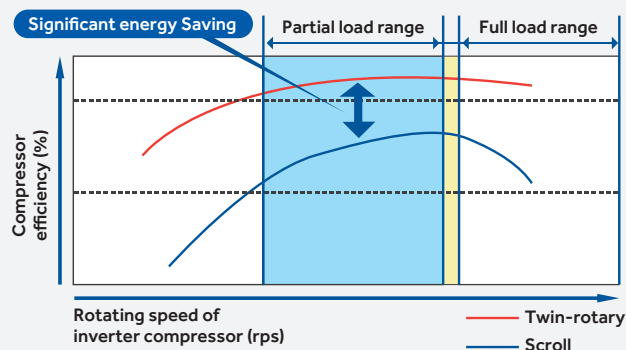
## EFFICIENCY

The A2W HP Monobloc has an impressive energy class of A+++. A SCOP of 4.97 and a COP of 5.06 can be reached when the leaving water temperature is 35°C.



## FULL DC INVERTER TECHNOLOGY

Our heat pumps adopt a full DC inverter twin-rotary compressor which has a smaller size and higher efficiency compared with a scroll compressor. The minimal friction of the compressor and the reduction in running vibration enables us to delivery high efficiency and low noise coming from the compressor.



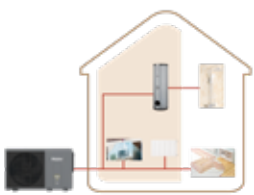
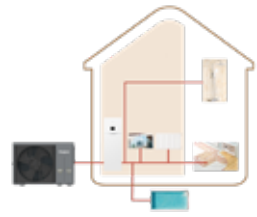
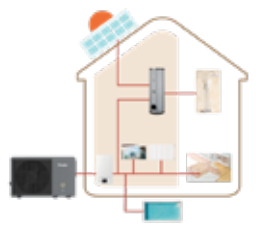
## A+ HOT WATER ERP CLASS



# A2W MODEL LINEUP

| TYPE        | R290                                                                                          |                                          |                                                                                                                 |                                                                |                                                                                                              |                                              |                                                                                                                |                                          |                                                                                                   |  |
|-------------|-----------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------|--|
| UNITS       | <br>MONOBLOC |                                          | <br>HYDRO OUTDOOR & ALL IN ONE |                                                                | <br>HYDRO OUTDOOR & MODULE |                                              | <br>HYDRO BUILD IT YOURSELF |                                          | <br>COMMERCIAL |  |
| PHASES      | Phase 1                                                                                       | Phase 3                                  | Phase 1                                                                                                         | Phase 3                                                        | Phase 1                                                                                                      | Phase 3                                      | Phase 1                                                                                                        | Phase 3                                  | Phase 3                                                                                           |  |
| 3 kW        |                                                                                               |                                          | ODU<br>AW032HSGHA<br><br>IDU<br>HU102F16AHYA<br>HU102F20AHYA                                                    |                                                                | ODU<br>AW032HSGHA<br><br>IDU<br>HU102WAHYA                                                                   |                                              | ODU<br>AW032HSGHA<br><br>IDU<br>ATW-E02N                                                                       |                                          |                                                                                                   |  |
| 4 kW        | ODU<br>AW042MUGHA<br><br>IDU<br>ATW-A03N                                                      |                                          | ODU<br>AW042HUGHA<br><br>IDU<br>HU102F16AHYA<br>HU102F20AHYA                                                    |                                                                | ODU<br>AW042HUGHA<br><br>IDU<br>HU102WAHYA                                                                   |                                              | ODU<br>AW042HUGHA<br><br>IDU<br>ATW-E02N                                                                       |                                          |                                                                                                   |  |
| 5 kW        |                                                                                               |                                          | ODU<br>AW052HSGHA<br><br>IDU<br>HU102F16AHYA<br>HU102F20AHYA                                                    |                                                                | ODU<br>AW052HSGHA<br><br>IDU<br>HU102WAHYA                                                                   |                                              | ODU<br>AW052HSGHA<br><br>IDU<br>ATW-E02N                                                                       |                                          |                                                                                                   |  |
| 6kW         | ODU<br>AW062MUGHA<br><br>IDU<br>ATW-A03N                                                      |                                          | ODU<br>AW062HUGHA<br><br>IDU<br>HU102F16AHYA<br>HU102F20AHYA                                                    |                                                                | ODU<br>AW062HUGHA<br><br>IDU<br>HU102WAHYA                                                                   |                                              | ODU<br>AW062HUGHA<br><br>IDU<br>ATW-E02N                                                                       |                                          |                                                                                                   |  |
| 7/<br>8kW   | ODU<br>AW082MUGHA<br><br>IDU<br>ATW-A03N                                                      |                                          | ODU<br>AW082HUGHA<br><br>IDU<br>HU102F16AHYA<br>HU102F20AHYA                                                    |                                                                | ODU<br>AW082HUGHA<br><br>IDU<br>HU102WAHYA                                                                   |                                              | ODU<br>AW082HUGHA<br><br>IDU<br>ATW-E02N                                                                       |                                          |                                                                                                   |  |
| 9/<br>10kW  | ODU<br>AW102MUGHA<br><br>IDU<br>ATW-A03N                                                      | ODU<br>AW10NMUGHA<br><br>IDU<br>ATW-A03N | ODU<br>AW102HUGHA<br><br>IDU<br>HU102F16AHYA<br>HU102F20AHYA<br>HU102F24AHYA                                    | ODU<br>AW10NHUGHA<br><br>IDU<br>HU102F20AHYAE3<br>HU102F24AHYA | ODU<br>AW102HUGHA<br><br>IDU<br>HU102WAHYA                                                                   | ODU<br>AW10NHUGHA<br><br>IDU<br>HU10NWAHYAE3 | ODU<br>AW102HUGHA<br><br>IDU<br>ATW-E02N                                                                       | ODU<br>AW10NHUGHA<br><br>IDU<br>ATW-E02N |                                                                                                   |  |
| 11/<br>12kW | ODU<br>AW122MXGHA<br><br>IDU<br>ATW-A03N                                                      | ODU<br>AW12NMVGHA<br><br>IDU<br>ATW-A03N | ODU<br>AW122HVGHA<br><br>IDU<br>HU162F20AHYA<br>HU162F24AHYA                                                    | ODU<br>AW12NHVGHA<br><br>IDU<br>HU162F20AHYAE3<br>HU162F24AHYA | ODU<br>AW122HVGHA<br><br>IDU<br>HU162WAHYA                                                                   | ODU<br>AW12NHVGHA<br><br>IDU<br>HU16NWAHYAE3 | ODU<br>AW122HVGHA<br><br>IDU<br>ATW-E02N                                                                       | ODU<br>AW12NHVGHA<br><br>IDU<br>ATW-E02N |                                                                                                   |  |
| 14kW        | ODU<br>AW142MXGHA<br><br>IDU<br>ATW-A03N                                                      | ODU<br>AW14NMVGHA<br><br>IDU<br>ATW-A03N | ODU<br>AW142HVGHA<br><br>IDU<br>HU162F20AHYA<br>HU162F24AHYA                                                    | ODU<br>AW14NHVGHA<br><br>IDU<br>HU162F20AHYAE3<br>HU162F24AHYA | ODU<br>AW142HVGHA<br><br>IDU<br>HU162WAHYA                                                                   | ODU<br>AW14NHVGHA<br><br>IDU<br>HU16NWAHYAE3 | ODU<br>AW142HVGHA<br><br>IDU<br>ATW-E02N                                                                       | ODU<br>AW14NHVGHA<br><br>IDU<br>ATW-E02N |                                                                                                   |  |
| 15/<br>16kW | ODU<br>AW162MXGHA<br><br>IDU<br>ATW-A03N                                                      | ODU<br>AW16NMVGHA<br><br>IDU<br>ATW-A03N | ODU<br>AW162HVGHA<br><br>IDU<br>HU162F20AHYA<br>HU162F24AHYA                                                    | ODU<br>AW16NHVGHA<br><br>IDU<br>HU162F20AHYAE3<br>HU162F24AHYA | ODU<br>AW162HVGHA<br><br>IDU<br>HU162WAHYA                                                                   | ODU<br>AW16NHVGHA<br><br>IDU<br>HU16NWAHYAE3 | ODU<br>AW162HVGHA<br><br>IDU<br>ATW-E02N                                                                       | ODU<br>AW16NHVGHA<br><br>IDU<br>ATW-E02N |                                                                                                   |  |
| 26/<br>40kW |                                                                                               |                                          |                                                                                                                 |                                                                |                                                                                                              |                                              |                                                                                                                |                                          | ODU<br>AW26NMYGHA<br>AW30NMYGHA<br>AW35NMYGHA<br>AW40NMYGHA<br><br>IDU<br>ATW-E03 OR<br>ATW-A03N  |  |



| SERIES                                | MONOBLOC                                                                                             | HYDRO OUTDOOR & ALL IN ONE                                                                           | HYDRO OUTDOOR & MODULE                                                                                 |
|---------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Type                                  | R290 A2W Series<br> | R290 A2W Series<br> | R290 A2W Series<br> |
| Advantages                            | Water connection indoor to outdoor                                                                   | Easier installation thanks to integrated water tank                                                  | Heat exchange is in the outdoor unit.<br>Water connection indoor to outdoor                            |
| Max. Leaving Water Temperature (°C)   | 80                                                                                                   | 80                                                                                                   | 80                                                                                                     |
| HIGH EFFICIENCY                       |                                                                                                      |                                                                                                      |                                                                                                        |
| Refrigerant (GWP)                     | R290 (3)                                                                                             |                                                                                                      |                                                                                                        |
| Energy Class at 35°C/7°C              | A+++                                                                                                 |                                                                                                      |                                                                                                        |
| Energy Class at 55°C/7°C              | A+++                                                                                                 |                                                                                                      |                                                                                                        |
| Min. Ambient Temp. at Heating (°C)    | -25                                                                                                  |                                                                                                      |                                                                                                        |
| Sound Power dB                        | 55                                                                                                   |                                                                                                      |                                                                                                        |
| ULTIMATE COMFORT                      |                                                                                                      |                                                                                                      |                                                                                                        |
| 2 Zone Control                        | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Fast DHW                              | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Quiet Mode                            | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Turbo Mode                            | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Climate Curve                         | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Sterilisation                         | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Auto Mode                             | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| HIGH RELIABILITY                      |                                                                                                      |                                                                                                      |                                                                                                        |
| Floor Drying                          | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Anti-Freezing                         | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Anti-rust and Corrosion of Water Pump | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| INTELLIGENCE                          |                                                                                                      |                                                                                                      |                                                                                                        |
| Smart Grid                            | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Modbus                                | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Energy Monitoring                     | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| WiFi                                  | hOn integrated                                                                                       | hOn integrated                                                                                       | hOn integrated                                                                                         |
| Holiday Mode                          | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Scheduling Programs                   | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| DHW Tank Solar Thermal Control        | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Auxiliary Heating Source              | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Pool Heating                          | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Bivalent Control                      | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| Cascade Control                       | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |
| SUPER CONVENIENCE                     |                                                                                                      |                                                                                                      |                                                                                                        |
| Selection Software                    | Yes                                                                                                  | Yes                                                                                                  | Yes                                                                                                    |
| Standardised indoor to outdoor wiring | Yes (P+Q)                                                                                            | Yes (P+Q)                                                                                            | Yes (P+Q)                                                                                              |
| SD Card Slot                          | Yes                                                                                                  | Yes                                                                                                  | Yes                                                                                                    |
| Error History                         | ●                                                                                                    | ●                                                                                                    | ●                                                                                                      |

NEW



## WHY CHOOSE THE NEW SUPER AQUA MINI SERIES?

---

The 3,5kW and 5kW Mini has been designed specifically for smaller properties with low heat loads. Although small capacity units are available in our standard range this one was designed to be able to operate really effectively at low loads. In Northern European markets like Uk, Ireland, Netherlands, Benelux, France (Nord) etc. These climate are mostly mild but with occasional cold spells. Most heat pumps focus solely on the very cold conditions we experience for a few hours or days a year while ignoring the vast majority of the heating season where the weather is cold but well above freezing.

The Mini is optimised to cope with the bulk of the heating season. The unit can modulate down to 778 Watts in mild conditions.. Hugely reducing cycling which is neither good for the heat pump or the level of comfort in the house. Its been built to operate in the conditions specifically to these markets where mid to low range performance is the key to comfort and performance.

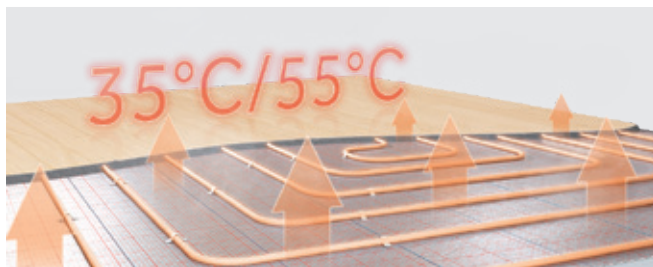
## R290 Refrigerant

R290 has zero ODP and a GWP of 3 making it the perfect choice for environmentally friendly heating systems.



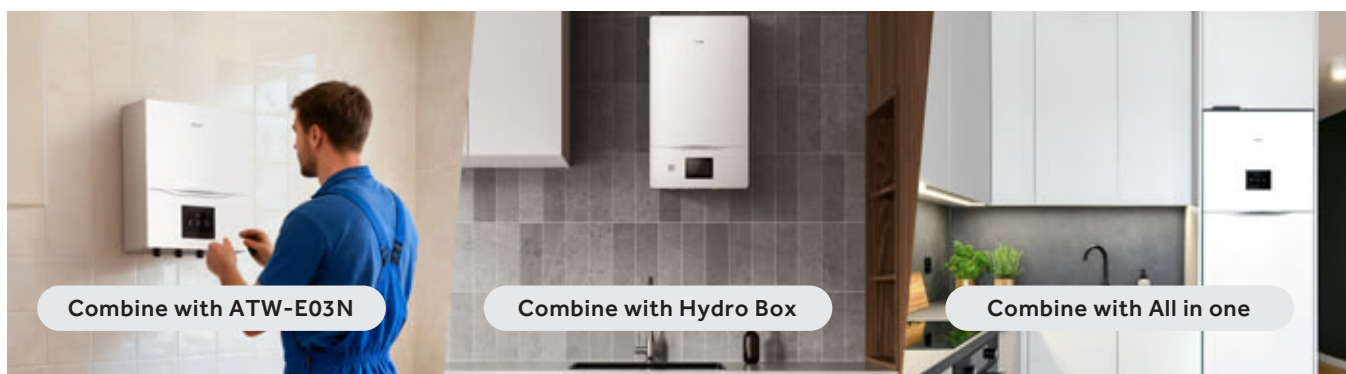
## Energy Efficiency Level A+++ / A+++ (35°C/55°C)

These are efficiency levels that cannot be met using R32 but still operate at high efficiency levels, even at low temperatures.



## Project Flexibility

The Mini can connect to all three types of heating modules. Combine with ATW-E02N/ Combine with Hydro Box/Combine with All in one. It's suitable for a variety of installation scenarios utilising its 22mm water pipe connections.



## Max COP up to 5.30

The Mini series has high efficiency levels. This series integrates technologies such as optimized condenser diversion, precise valve control, uniform risk control system for air supply. The value of A7W35 COP can be as high as 5.30.



## Low sound level

Equipped with a low-noise compressor and low-noise technology, the unit's noise level can be as low as 42dB(A). Perfect for residential spaces.



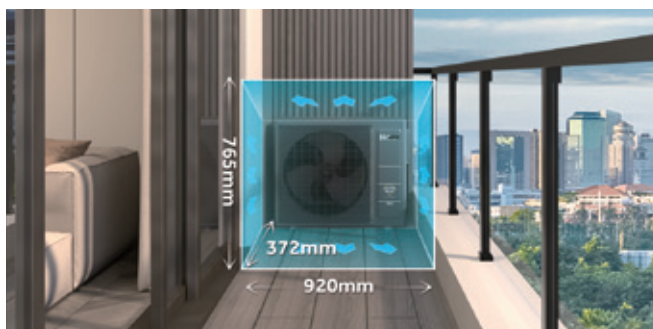
## Low Turn Down and Low Refrigerant Charge

The Mini is designed to run efficiently throughout the heating season. Refrigerant charge has been kept to a minimum to reduce safety the zone around the unit.



## Ultra-compact design

The design on the Mini series is very suitable for installation on apartment balconies. The width of the Mini is only 920mm. It could save 50% installation space than the traditional heat pump.





# NEW MINI R290



AW032HSGHA  
AW052HSGHA



ATW-E02N  
(Must be ordered  
Separately)



HU102WAHYA(B)  
(Must be ordered  
Separately)



HU102F16AHYA  
HU102F20AHYA  
(Must be ordered  
Separately)

## 3 INDOOR UNIT OPTIONS

| Model                                                 |                |        | AW032HSGHA              | AW052HSGHA   |
|-------------------------------------------------------|----------------|--------|-------------------------|--------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity       | kW     | 3.80                    | 5.10         |
|                                                       | Power input    | kW     | 0.72                    | 0.99         |
|                                                       | COP            | -      | 5.30                    | 5.16         |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity       | kW     | 3.50                    | 5.10         |
|                                                       | Power input    | kW     | 1.09                    | 1.58         |
|                                                       | COP            | -      | 3.21                    | 3.23         |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP           | -      | 5.07                    | 4.90         |
|                                                       | ns             | %      | 200                     | 193          |
|                                                       | Energy class   | -      | A+++                    | A+++         |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP           | -      | 3.85                    | 3.85         |
|                                                       | ns             | %      | 151                     | 151          |
|                                                       | Energy class   | -      | A+++                    | A+++         |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity       | kW     | 3.50                    | 5.00         |
|                                                       | Power input    | kW     | 0.74                    | 1.08         |
|                                                       | EER            | -      | 4.70                    | 4.65         |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity       | kW     | 3.50                    | 4.60         |
|                                                       | Power input    | kW     | 1.13                    | 1.51         |
|                                                       | EER            | -      | 3.10                    | 3.05         |
| Outdoor operating<br>temperature range                | Heating        | °C     | -25 ~ 35                | -25 ~ 35     |
|                                                       | Cooling        | °C     | 10 ~ 48                 | 10 ~ 48      |
|                                                       | DHW            | °C     | -25 ~ 43                | -25 ~ 43     |
| Leaving water<br>temperature range                    | Heating        | °C     | 20~80                   | 20~80        |
|                                                       | Cooling        | °C     | 5~25                    | 5~25         |
| Storage temperature<br>range(tank)                    | DHW            | °C     | 25~75                   | 25~75        |
| Water piping connection                               | Inlet/Outlet   | inch   | G1/G 1                  | G1/G 1       |
| Expansion tank                                        | L              |        | /                       | /            |
| Compressor                                            | Quantity       | -      | 1                       | 1            |
|                                                       | Type           | -      | DC Inverter Twin Rotary |              |
| Refrigerant                                           | Type           | -      | R290                    |              |
|                                                       | Charge/CO2 Eq. | kg/t   | 0.59 / 1.77             | 0.59 / 1.77  |
| Net dimension                                         | (HxWxD)        | mm     | 765x920x372             | 765x920x372  |
| Packing dimension                                     | (HxWxD)        | mm     | 875x1045x488            | 875x1045x488 |
| Net/Gross weight                                      |                | kg     | 68/80                   | 68/80        |
| Sound Pressure level*(1)                              |                | dB(A)  | 42                      | 42           |
| Sound power level*(1)                                 |                | dB     | 55                      | 55           |
| Power supply                                          |                | V/-/Hz | 1/220-240/50            | 1/220-240/50 |
| Max. running current                                  |                | A      | 13.5                    | 13.5         |
| Recommended<br>circuit breaker                        |                | A      | 16                      | 16           |



Min outside ambient  
temperature -25°C

Note:

1. According to EN14511, EN14825 (EU) and No 811/2013(EU).

2. LWT: Leaving water temperature; OAT: Outdoor air temperature.

3. Sound level values are measured at a semi-anechoic room. And the sound power level values are based on measurement of EN12102-1 under conditions of EN14825.

4. The above data may be changed without notice for future improvement on quality and performance.

\*(1)Max running current does not include backup electric heater, which is individually powered on.

\*(2)The testing conditions refer to EN16147 average climate

\*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

# Haier

## NEW MINI R290

### ATW-E02N



| Indoor Unit         |         |    | ATW-A03N        |
|---------------------|---------|----|-----------------|
| Power Supply        |         |    | 20 AMP          |
| Net Dimension       | (HxWxD) | mm | 460 × 400 × 110 |
| Packaging dimension | (HxWxD) | mm | 590 × 500 × 235 |
| Net / Gross weight  |         | kg | 11.2 kg         |
|                     |         | kg | 8.1 kg          |

You then need the build it yourself kit ATW-E02N which comprises the flow switch and the wiring centre ATW-A03N\*

### HU102WAHYA(B)



| Indoor Unit                      |              |         | HU102WAHYA       |
|----------------------------------|--------------|---------|------------------|
| Leaving water temperature range  | Heating      | °C      | 20-80            |
|                                  | Cooling      | °C      | 5-25             |
| Storage temperature range (Tank) | DHW          | °C      | 25-75            |
| Water piping Connection          | Inlet/Outlet | inch    | R 1/R 1          |
| Expansion Tank                   |              | L       | 8                |
| Backup electric heater           | Capacity     | kW      | 1+2              |
| Power supply                     |              | V/ph/Hz | 220-240/1/50     |
| Max running current              |              | A       | 14.1             |
| Recommended circuit breaker      |              | A       | 20.0             |
| Sound power level                |              | dB      | 40               |
| Net Dimension                    | (HxWxD)      | mm      | 850 × 480 × 310  |
| Packaging dimension              | (HxWxD)      | mm      | 1020 × 580 × 460 |
| Net / Gross weight               | HU1*2WAHYA** | kg      | 35.5 / 49        |
|                                  | HU1*2WAHYB** | kg      | 32.5/46          |

### HU102F16AHYA HU102F20AHYA



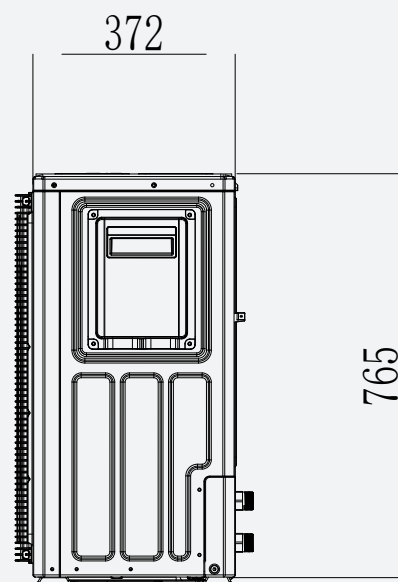
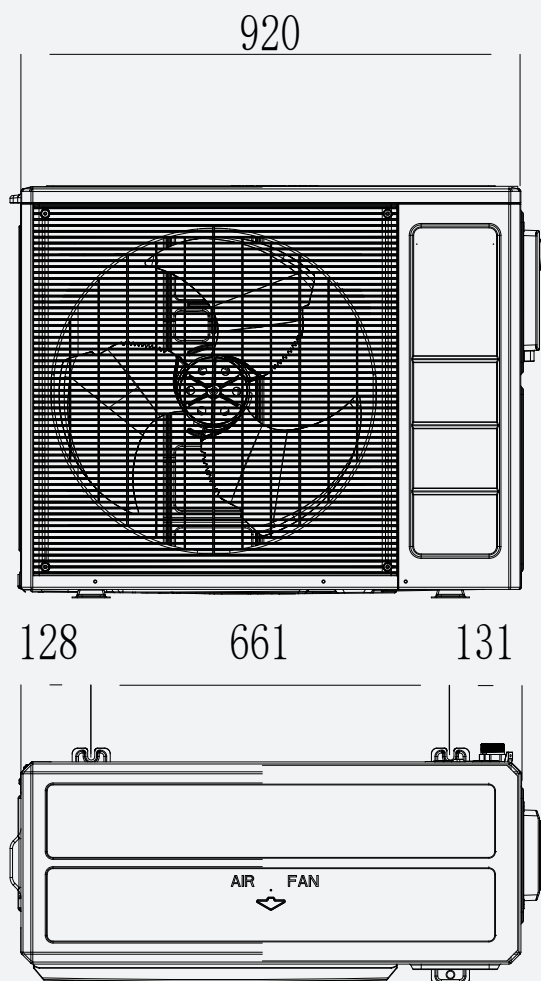
| Indoor Unit                           |                               |         | HU102F16AHYA                | HU102F20AHYA     |
|---------------------------------------|-------------------------------|---------|-----------------------------|------------------|
| Leaving water temperature range       | Heating                       | °C      | 20-80                       | 20-80            |
|                                       | Cooling                       | °C      | 5-25                        | 5-25             |
| Storage temperature range (Tank)      | DHW                           | °C      | 25-75                       | 25-75            |
| Water piping Connection               | Inlet/Outlet (except for DHW) | inch    | R 1/R 1                     | R 1/R 1          |
|                                       | Inlet/Outlet (DHW)            | inch    | R 3/4                       | R 3/4            |
| Expansion Tank                        |                               | L       | 8                           | 8                |
| Primary circuit                       | Pressure relief valve         | bar     | 3                           | 3                |
| Power supply                          |                               | V/ph/Hz | 220-240/1/50                | 220-240/1/50     |
| Max running current*(1)               |                               | A       | 14.1                        | 14.1             |
| Recommended circuit breaker           |                               | A       | 20.0                        | 20.0             |
| DHW Tank                              | Type                          | -       | 2205 duplex stainless steel |                  |
|                                       | Tank Volume                   | L       | 160                         | 200              |
|                                       | Maximum water pressure limit  | bar     | 7                           | 7                |
|                                       | Tank heater                   | kW      | 3                           | 3                |
| Delcared load profile                 |                               | -       | L                           | L                |
| COPx(2)                               |                               | -       | 3.16                        | 3.37             |
| Water heating energy efficiency class |                               | -       | A+                          | A+               |
| Backup electric heater                | Power supply                  | V/ph/Hz | 220-240/1/50                | 220-240/1/50     |
|                                       | Capacity                      | kW      | 1+2                         | 1+2              |
|                                       | Steps                         | -       | 3                           | 3                |
|                                       | Max Running current           | A       | 14.0                        | 14.0             |
|                                       | Recommended circuit breaker   | A       | 20.0                        | 20.0             |
| Sound power level                     |                               | dB      | 40                          | 40               |
| Net Dimension                         | (HxWxD)                       | mm      | 1580x590x590                | 1780 × 590 × 595 |
| Packaging dimension                   | (HxWxD)                       | mm      | 1860x695x695                | 2060 × 695 × 695 |
| Net / Gross weight                    |                               | kg      | 103 / 121                   | 115 / 131        |

NEW  
**MINI** R290

**MINI**

AW032HSGHA

AW052HSGHA





## R290 MONOBLOC



AW042MUGHA  
AW062MUGHA  
AW082MUGHA  
AW102MUGHA  
  
AW10NMUGHA



ATW-A03N  
(Must be ordered  
Separately)

Our monobloc includes a water pump, expansion vessel, and flow meter all inside the unit.

The monobloc unit has a wiring centre mounted inside the house to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

| Product Data                                          |                |        | Monobloc<br>4kW-1Ph                                          | Monobloc<br>6kW-1Ph | Monobloc<br>8kW-1Ph | Monobloc<br>10kW-1Ph | Monobloc<br>10kW-3Ph |
|-------------------------------------------------------|----------------|--------|--------------------------------------------------------------|---------------------|---------------------|----------------------|----------------------|
| Model                                                 |                |        | AW042MUGHA                                                   | AW062MUGHA          | AW082MUGHA          | AW102MUGHA           | AW10NMUGHA           |
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity       | kW     | 4.00                                                         | 6.00                | 8.00                | 10.00                | 10.00                |
|                                                       | Power input    | kW     | 0.73                                                         | 1.12                | 1.50                | 1.96                 | 1.96                 |
|                                                       | COP            | -      | 5.50                                                         | 5.35                | 5.35                | 5.10                 | 5.10                 |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity       | kW     | 4.00                                                         | 6.00                | 8.00                | 10.00                | 10.00                |
|                                                       | Power input    | kW     | 1.19                                                         | 1.82                | 2.35                | 3.13                 | 3.13                 |
|                                                       | COP            | -      | 3.35                                                         | 3.30                | 3.40                | 3.20                 | 3.20                 |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP           | -      | 5.10                                                         | 5.10                | 5.20                | 5.10                 | 5.10                 |
|                                                       | ns             | %      | 201                                                          | 201                 | 205                 | 201                  | 201                  |
|                                                       | Energy class   | -      | A+++                                                         | A+++                | A+++                | A+++                 | A+++                 |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP           | -      | 3.85                                                         | 3.83                | 3.85                | 3.83                 | 3.83                 |
|                                                       | ns             | %      | 151                                                          | 150                 | 151                 | 150                  | 150                  |
|                                                       | Energy class   | -      | A+++                                                         | A+++                | A+++                | A+++                 | A+++                 |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity       | kW     | 4.00                                                         | 6.00                | 7.50                | 9.50                 | 9.50                 |
|                                                       | Power input    | kW     | 0.79                                                         | 1.20                | 1.58                | 2.21                 | 2.21                 |
|                                                       | EER            | -      | 5.05                                                         | 5.00                | 4.75                | 4.30                 | 4.30                 |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity       | kW     | 3.50                                                         | 5.00                | 6.80                | 8.50                 | 8.50                 |
|                                                       | Power input    | kW     | 0.95                                                         | 1.37                | 1.97                | 2.62                 | 2.62                 |
|                                                       | EER            | -      | 3.70                                                         | 3.65                | 3.45                | 3.25                 | 3.25                 |
| Outdoor operating<br>temperature range                | Heating        | °C     | -25 ~ 35                                                     | -25 ~ 35            | -25 ~ 35            | -25 ~ 35             | -25 ~ 35             |
|                                                       | Cooling        | °C     | 10 ~ 48                                                      | 10 ~ 48             | 10 ~ 48             | 10 ~ 48              | 10 ~ 48              |
|                                                       | DHW            | °C     | -25 ~ 43                                                     | -25 ~ 43            | -25 ~ 43            | -25 ~ 43             | -25 ~ 43             |
| Leaving water<br>temperature range                    | Heating        | °C     | 20-80                                                        | 20-80               | 20-80               | 20-80                | 20-80                |
|                                                       | Cooling        | °C     | 5-25                                                         | 5-25                | 5-25                | 5-25                 | 5-25                 |
| Storage temperature<br>range(tank)                    | DHW            | °C     | 25-75                                                        | 25-75               | 25-75               | 25-75                | 25-75                |
| Water piping connection                               | Inlet/Outlet   | inch   | R 1/R 1                                                      | R 1/R 1             | R 1/R 1             | R 1/R 1              | R 1/R 1              |
| Expansion tank                                        | L              |        | 4.5                                                          | 4.5                 | 4.5                 | 4.5                  | 4.5                  |
| Compressor                                            | Quantity       | -      | 1                                                            | 1                   | 1                   | 1                    | 1                    |
|                                                       | Type           | -      | DC inverter twin rotary                                      |                     |                     |                      |                      |
| Refrigerant                                           | Type           | -      | R290                                                         |                     |                     |                      |                      |
|                                                       | Charge/CO2 Eq. | kg/t   | 0.8/2.4                                                      | 0.8/2.4             | 0.9/2.7             | 0.9/2.7              | 0.9/2.7              |
| Net dimension                                         | (HxWxD)        | mm     | 790 × 1250 × 380                                             | 790 × 1250 × 380    | 790 × 1250 × 380    | 790 × 1250 × 380     | 790 × 1250 × 380     |
| Packing dimension                                     | (HxWxD)        | mm     | 1022 × 1395 × 595                                            | 1022 × 1395 × 595   | 1022 × 1395 × 595   | 1022 × 1395 × 595    | 1022 × 1395 × 595    |
| Net/Gross weight                                      |                | kg     | 94/127                                                       | 94/127              | 106/139             | 106/139              | 121/154              |
| Sound Pressure level*(1)                              |                | dB(A)  | 44                                                           | 47                  | 48                  | 49                   | 49                   |
| Sound power level*(1)                                 |                | dB     | 55                                                           | 58                  | 59                  | 60                   | 60                   |
| Power supply                                          |                | V/-/Hz | 220-240/1/50                                                 | 220-240/1/50        | 220-240/1/50        | 220-240/1/50         | 380-415/3/50         |
| Max. running current                                  |                | A      | 13.5                                                         | 13.5                | 18.6                | 18.6                 | 6.2                  |
| Recommended<br>circuit breaker                        |                | A      | 16.0                                                         | 16.0                | 20.0                | 20.0                 | 16.0                 |
| Accessory                                             | PCB Box        | -      | ATW-A03N (Must be ordered Separately - Includes HW-WA101DBT) |                     |                     |                      |                      |
|                                                       | Filter         | -      | Y-type (Standard)                                            |                     |                     |                      |                      |
| Indoor Unit                                           |                |        | ATW-A03N                                                     |                     |                     |                      |                      |
| Power Supply                                          |                |        | 20 AMP                                                       |                     |                     |                      |                      |
| Net Dimension                                         | (HxWxD)        | mm     | 460 × 400 × 110                                              |                     |                     |                      |                      |
| Packaging dimension                                   | (HxWxD)        | mm     | 590 × 500 × 235                                              |                     |                     |                      |                      |
| Net / Gross weight                                    |                | kg     | 11.2 kg                                                      |                     |                     |                      |                      |
|                                                       |                | kg     | 8.1 kg                                                       |                     |                     |                      |                      |



Note: \*(1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017(A7/W35)

# R290 MONOBLOC



AW122MXGHA  
AW142MXGHA  
AW162MXGHA

AW12NMXGHA  
AW14NMXGHA  
AW16NMXGHA



ATW-A03N  
(Must be ordered  
Separately)

Our monobloc includes a water pump, expansion vessel, and flow meter all inside the unit.

The monobloc unit has a wiring centre mounted inside the house to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

| Product Data                                          |                |        | Monobloc<br>12kW-1Ph                                         | Monobloc<br>14kW-1Ph | Monobloc<br>16kW-1Ph | Monobloc<br>12kW-3Ph | Monobloc<br>14kW-3Ph | Monobloc<br>16kW-3Ph |
|-------------------------------------------------------|----------------|--------|--------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Model                                                 |                |        | AW122MXGHA                                                   | AW142MXGHA           | AW162MXGHA           | AW12NMXGHA           | AW14NMXGHA           | AW16NMXGHA           |
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity       | kW     | 12.00                                                        | 14.00                | 16.00                | 12.00                | 14.00                | 16.00                |
|                                                       | Power input    | kW     | 2.35                                                         | 2.83                 | 3.23                 | 2.35                 | 2.83                 | 3.23                 |
|                                                       | COP            | -      | 5.10                                                         | 4.95                 | 4.95                 | 5.10                 | 4.95                 | 4.95                 |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity       | kW     | 11.50                                                        | 13.50                | 15.50                | 11.50                | 13.50                | 15.50                |
|                                                       | Power input    | kW     | 3.48                                                         | 4.22                 | 5.08                 | 3.48                 | 4.22                 | 5.08                 |
|                                                       | COP            | -      | 3.30                                                         | 3.20                 | 3.05                 | 3.30                 | 3.20                 | 3.05                 |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP           | -      | 4.82                                                         | 4.80                 | 4.80                 | 4.82                 | 4.80                 | 4.80                 |
|                                                       | ns             | %      | 190                                                          | 189                  | 189                  | 190                  | 189                  | 189                  |
|                                                       | Energy class   | -      | A+++                                                         | A+++                 | A+++                 | A+++                 | A+++                 | A+++                 |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP           | -      | 3.85                                                         | 3.83                 | 3.85                 | 3.85                 | 3.83                 | 3.85                 |
|                                                       | ns             | %      | 151                                                          | 150                  | 151                  | 151                  | 150                  | 151                  |
|                                                       | Energy class   | -      | A+++                                                         | A+++                 | A+++                 | A+++                 | A+++                 | A+++                 |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity       | kW     | 11.50                                                        | 13.50                | 15.50                | 11.50                | 13.50                | 15.50                |
|                                                       | Power input    | kW     | 2.56                                                         | 3.14                 | 3.88                 | 2.56                 | 3.14                 | 3.88                 |
|                                                       | EER            | -      | 4.50                                                         | 4.30                 | 4.00                 | 4.50                 | 4.30                 | 4.00                 |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity       | kW     | 10.00                                                        | 12.00                | 14.00                | 10.00                | 12.00                | 14.00                |
|                                                       | Power input    | kW     | 2.99                                                         | 3.75                 | 4.52                 | 2.99                 | 3.75                 | 4.52                 |
|                                                       | EER            | -      | 3.35                                                         | 3.20                 | 3.10                 | 3.35                 | 3.20                 | 3.10                 |
| Outdoor operating<br>temperature range                | Heating        | °C     | -25 ~ 35                                                     | -25 ~ 35             | -25 ~ 35             | -25 ~ 35             | -25 ~ 35             | -25 ~ 35             |
|                                                       | Cooling        | °C     | 10 ~ 48                                                      | 10 ~ 48              | 10 ~ 48              | 10 ~ 48              | 10 ~ 48              | 10 ~ 48              |
|                                                       | DHW            | °C     | -25 ~ 43                                                     | -25 ~ 43             | -25 ~ 43             | -25 ~ 43             | -25 ~ 43             | -25 ~ 43             |
| Leaving water<br>temperature range                    | Heating        | °C     | 20-80                                                        | 20-80                | 20-80                | 20-80                | 20-80                | 20-80                |
|                                                       | Cooling        | °C     | 5-25                                                         | 5-25                 | 5-25                 | 5-25                 | 5-25                 | 5-25                 |
| Storage temperature<br>range (tank)                   | DHW            | °C     | 25-75                                                        | 25-75                | 25-75                | 25-75                | 25-75                | 25-75                |
| Water piping connection                               | Inlet/Outlet   | inch   | R 1/R 1                                                      | R 1/R 1              | R 1/R 1              | R 1/R 1              | R 1/R 1              | R 1/R 1              |
| Expansion tank                                        | L              |        | 8                                                            | 8                    | 8                    | 8                    | 8                    | 8                    |
| Compressor                                            | Quantity       | -      | 1                                                            | 1                    | 1                    | 1                    | 1                    | 1                    |
|                                                       | Type           | -      | DC inverter twin rotary                                      |                      |                      |                      |                      |                      |
| Refrigerant                                           | Type           | -      | R290                                                         |                      |                      |                      |                      |                      |
|                                                       | Charge/CO2 Eq. | kg/t   | 1.05/3.15                                                    | 1.05/3.15            | 1.25/3.75            | 1.05/3.15            | 1.05/3.15            | 1.25/3.75            |
| Net dimension                                         | (HxWxD)        | mm     | 880 × 1380 × 460                                             | 880 × 1380 × 460     | 880 × 1380 × 460     | 880 × 1380 × 460     | 880 × 1380 × 460     | 880 × 1380 × 460     |
| Packing dimension                                     | (HxWxD)        | mm     | 1112 × 1526 × 675                                            | 1112 × 1526 × 675    | 1112 × 1526 × 675    | 1112 × 1526 × 675    | 1112 × 1526 × 675    | 1112 × 1526 × 675    |
| Net/Gross weight                                      |                | kg     | 127/165                                                      | 127/165              | 136/174              | 142/180              | 142/180              | 151/189              |
| Sound Pressure level*(1)                              |                | dB(A)  | 44                                                           | 47                   | 48                   | 49                   | 49                   | 44                   |
| Sound power level*(1)                                 |                | dB     | 55                                                           | 58                   | 59                   | 60                   | 60                   | 57                   |
| Power supply                                          |                | V/-/Hz | 220-240/1/50                                                 | 220-240/1/50         | 220-240/1/50         | 380-415/3/50         | 380-415/3/50         | 380-415/3/50         |
| Max. running current                                  |                | A      | 30.6                                                         | 30.6                 | 34.8                 | 10.2                 | 10.2                 | 11.6                 |
| Recommended<br>circuit breaker                        |                | A      | 32.0                                                         | 32.0                 | 40.0                 | 16.0                 | 16.0                 | 16.0                 |
| Accessory                                             | PCB Box        | -      | ATW-A03N (Must be ordered Separately - Includes HW-WA101DBT) |                      |                      |                      |                      |                      |
|                                                       | Filter         | -      | Y-type (Standard)                                            |                      |                      |                      |                      |                      |
| Indoor Unit                                           |                |        | ATW-A03N                                                     |                      |                      |                      |                      |                      |
| Power Supply                                          |                |        | 20 AMP                                                       |                      |                      |                      |                      |                      |
| Net Dimension                                         | (HxWxD)        | mm     | 460 × 400 × 110                                              |                      |                      |                      |                      |                      |
| Packaging dimension                                   | (HxWxD)        | mm     | 590 × 500 × 235                                              |                      |                      |                      |                      |                      |
| Net / Gross weight                                    |                | kg     | 11.2 kg                                                      |                      |                      |                      |                      |                      |
|                                                       |                | kg     | 8.1 kg                                                       |                      |                      |                      |                      |                      |

Note: \*(1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017(A7/W35)



## R290 MONOBLOC

### MONO

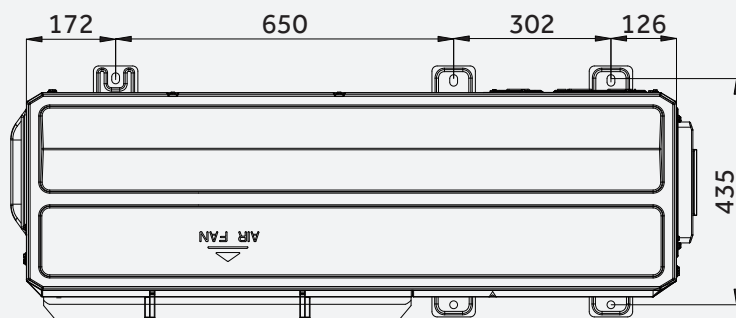
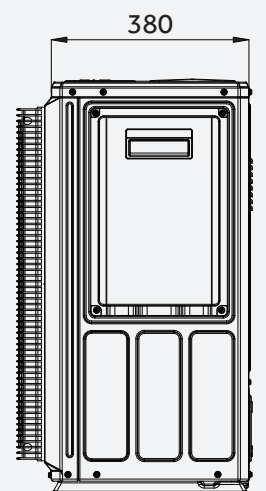
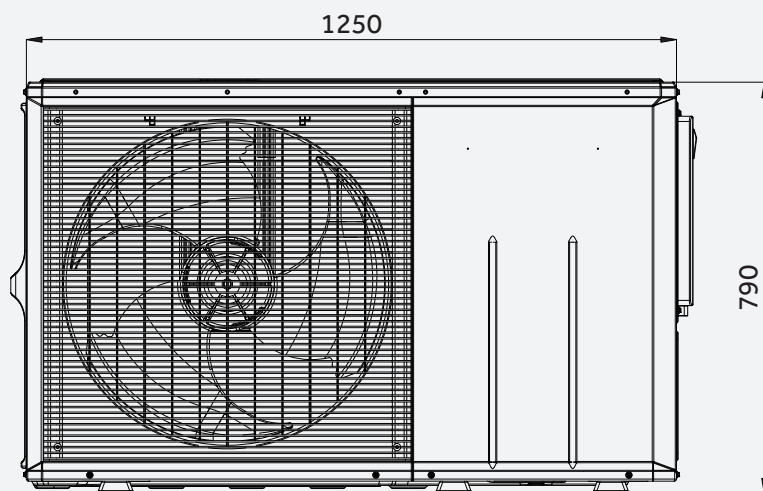
AW042MUGHA

AW062MUGHA

AW082MUGHA

AW102MUGHA

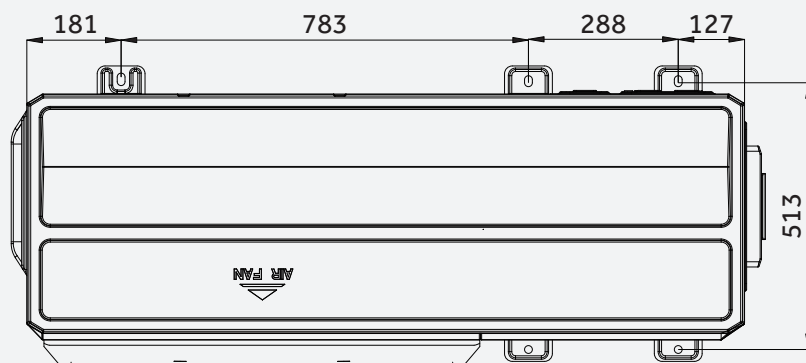
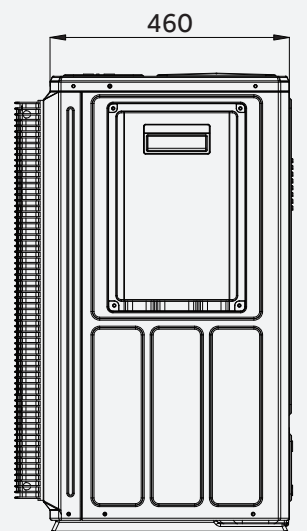
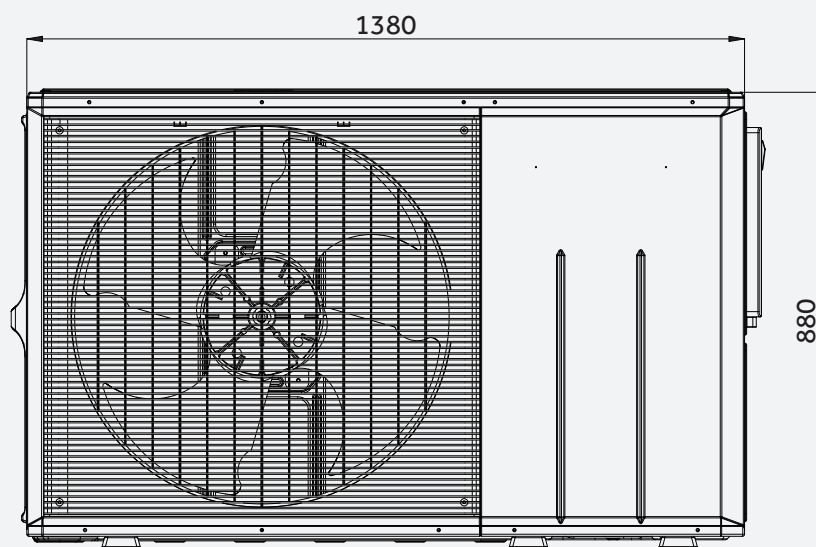
AW10NMUGHA



# R290 MONOBLOC

## MONO

AW122MXGHA  
AW142MXGHA  
AW162MXGHA  
AW12NMXGHA  
AW14NMXGHA  
AW16NMXGHA





## HYDRO OUTDOOR &amp; ALL-IN-ONE



AW042HUGHA  
AW062HUGHA  
AW082HUGHA  
AW102HUGHA  
AW10NHUGHA



NEW

160 L

HU102F16AHYA  
HU102F16AHYAE3  
(Must be ordered  
separately)

Our all in one unit has the expansion vessel ,  
flow switch and water pump inside the all in  
one unit.

The all in one units have a wiring centre  
mounted inside them to make wiring  
simpler. It connects to the outdoor unit  
with a 2 core cable.

| Model                                                 |                                  |         | Hydro All in one<br>4kW-1Ph | Hydro All in one<br>6kW-1Ph | Hydro All in one<br>8kW-1Ph | Hydro All in one<br>10kW-1Ph | Hydro All in one<br>10kW-3Ph |
|-------------------------------------------------------|----------------------------------|---------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity                         | kW      | 4.00                        | 6.00                        | 8.00                        | 10.00                        | 10.00                        |
|                                                       | Power input                      | kW      | 0.73                        | 1.12                        | 1.50                        | 1.96                         | 1.96                         |
|                                                       | COP                              | W/W     | 5.50                        | 5.35                        | 5.35                        | 5.10                         | 5.10                         |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity                         | kW      | 4.00                        | 6.00                        | 8.00                        | 10.00                        | 10.00                        |
|                                                       | Power input                      | kW      | 1.19                        | 1.82                        | 2.35                        | 3.13                         | 3.13                         |
|                                                       | COP                              | W/W     | 3.35                        | 3.30                        | 3.40                        | 3.20                         | 3.20                         |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP                             | -       | 5.10                        | 5.10                        | 5.20                        | 5.10                         | 5.10                         |
|                                                       | ns                               | %       | 201                         | 201                         | 205                         | 201                          | 201                          |
|                                                       | Energy class                     | -       | A+++                        | A+++                        | A+++                        | A+++                         | A+++                         |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP                             | -       | 3.85                        | 3.83                        | 3.85                        | 3.83                         | 3.83                         |
|                                                       | ns                               | %       | 151                         | 150                         | 151                         | 150                          | 150                          |
|                                                       | Energy class                     | -       | A+++                        | A+++                        | A+++                        | A+++                         | A+++                         |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity                         | kW      | 4.00                        | 6.00                        | 7.50                        | 9.50                         | 9.50                         |
|                                                       | Power input                      | kW      | 0.79                        | 1.20                        | 1.58                        | 2.21                         | 2.21                         |
|                                                       | EER                              | -       | 5.05                        | 5.00                        | 4.75                        | 4.30                         | 4.30                         |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity                         | kW      | 3.50                        | 5.00                        | 6.80                        | 8.50                         | 8.50                         |
|                                                       | Power input                      | kW      | 0.95                        | 1.37                        | 1.97                        | 2.62                         | 2.62                         |
|                                                       | EER                              | -       | 3.70                        | 3.65                        | 3.45                        | 3.25                         | 3.25                         |
| Indoor Unit                                           |                                  |         | HU102F16AHYA                | HU102F16AHYA                | HU102F16AHYA                | HU102F16AHYA                 | HU102F16AHYAE3               |
| Leaving water<br>temperature range                    | Heating                          | °C      | 20-80                       | 20-80                       | 20-80                       | 20-80                        | 20-80                        |
|                                                       | Cooling                          | °C      | 5-25                        | 5-25                        | 5-25                        | 5-25                         | 5-25                         |
| Storage temperature<br>range (Tank)                   | DHW                              | °C      | 25-75                       | 25-75                       | 25-75                       | 25-75                        | 25-75                        |
| Water piping<br>Connection                            | Inlet/Outlet<br>(except for DHW) | inch    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                     | R 1/ R 1                     |
|                                                       | Inlet/Outlet (DHW)               | inch    | R 3/4                       | R 3/4                       | R 3/4                       | R 3/4                        | R 3/4                        |
| Expansion Tank                                        | L                                |         | 8                           | 8                           | 8                           | 8                            | 8                            |
| Primary circuit                                       | Pressure relief valve            | bar     | 3                           | 3                           | 3                           | 3                            | 3                            |
| Power supply                                          | V/ph/Hz                          |         | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 220-240/1/50                 |
| Max running current*(1)                               | A                                |         | 14.1                        | 14.1                        | 14.1                        | 14.1                         | 14.1                         |
| Recommended circuit breaker                           | A                                |         | 20.0                        | 20.0                        | 20.0                        | 20.0                         | 20.0                         |
| DHW Tank                                              | Type                             | -       | 2205 duplex stainless steel |                             |                             |                              |                              |
|                                                       | Tank Volume                      | L       | 160                         | 160                         | 160                         | 160                          | 160                          |
|                                                       | Maximum water<br>pressure limit  | bar     | 7                           | 7                           | 7                           | 7                            | 7                            |
|                                                       | Tank heater                      | kW      | 3                           | 3                           | 3                           | 3                            | 3                            |
| Declared load profile                                 | -                                | L       | L                           | L                           | L                           | L                            | L                            |
| COPx(2)                                               | -                                |         | 3.16                        | 3.16                        | 3.16                        | 3.16                         | 3.16                         |
| Water heating energy efficiency class                 | -                                |         | A+                          | A+                          | A+                          | A+                           | A+                           |
| Backup electric heater                                | Power supply                     | V/ph/Hz | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 380-415/3/50                 |
|                                                       | Capacity                         | kW      | 1+2                         | 1+2                         | 1+2                         | 1+2                          | 1+2                          |
|                                                       | Steps                            | -       | 3                           | 3                           | 3                           | 3                            | 3                            |
|                                                       | Max Running current              | A       | 14.0                        | 14.0                        | 14.0                        | 14.0                         | 5.0                          |
|                                                       | Recommended<br>circuit breaker   | A       | 20.0                        | 20.0                        | 20.0                        | 20.0                         | 10.0                         |
| Sound power level                                     | dB                               |         | 40                          | 40                          | 40                          | 40                           | 40                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 1580x590x590                | 1580x590x590                | 1580x590x590                | 1580x590x590                 | 1580x590x590                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 1860x695x695                | 1860x695x695                | 1860x695x695                | 1860x695x695                 | 1860x695x695                 |
| Net / Gross weight                                    | kg                               |         | 103 / 121                   | 103 / 121                   | 103 / 121                   | 103 / 121                    | 103.5 / 121.5                |
| Outdoor Unit                                          |                                  |         | AW042HUGHA                  | AW062HUGHA                  | AW082HUGHA                  | AW102HUGHA                   | AW10NHUGHA                   |
| Outdoor operating<br>temperature range                | Heating                          | °C      | -25 ~ 35                    | -25 ~ 35                    | -25 ~ 35                    | -25 ~ 35                     | -25 ~ 35                     |
|                                                       | Cooling                          | °C      | 10 ~ 48                     | 10 ~ 48                     | 10 ~ 48                     | 10 ~ 48                      | 10 ~ 48                      |
|                                                       | DHW                              | °C      | -25 ~ 43                    | -25 ~ 43                    | -25 ~ 43                    | -25 ~ 43                     | -25 ~ 43                     |
| Water piping connection                               | Inlet/Outlet                     | inch    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                     | R 1/ R 1                     |
| Compressor                                            | Quantity                         | -       | 1                           | 1                           | 1                           | 1                            | 1                            |
|                                                       | Type                             | -       | DC inverter twin rotary     |                             |                             |                              |                              |
| Refrigerant                                           | Type                             | -       | R290                        |                             |                             |                              |                              |
|                                                       | Charge/CO2 Eq.                   | kg/T    | 0.8/2.4                     | 0.8/2.4                     | 0.9/2.7                     | 0.9/2.7                      | 0.9/2.7                      |
| Sound pressure level *(3)                             | dB(A)                            |         | 44                          | 47                          | 48                          | 49                           | 49                           |
| Sound power level *(3)                                | dB                               |         | 55                          | 58                          | 59                          | 60                           | 60                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 790x1250x380                | 790x1250x380                | 790x1250x380                | 790x1250x380                 | 790x1250x380                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 1022x1395x550               | 1022x1395x550               | 1022x1395x550               | 1022x1395x550                | 1022x1395x550                |
| Net / Gross weight                                    | kg                               |         | 82/106                      | 82/106                      | 91/115                      | 91/115                       | 101/125                      |
| Power supply                                          | V/ph/Hz                          |         | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 380-415/3/50                 |
| Max running current                                   | A                                |         | 13.5                        | 13.5                        | 18.6                        | 18.6                         | 6.2                          |
| Recommended circuit breaker                           | A                                |         | 16.0                        | 16.0                        | 20.0                        | 20.0                         | 16.0                         |

\*(1)Max running current does not include backup electric heater, which is individually powered on.

\*(2)The testing conditions refer to EN16147 average climate

\*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)



R290

## HYDRO OUTDOOR &amp; ALL-IN-ONE



AW042HUGHA  
AW062HUGHA  
AW082HUGHA  
AW102HUGHA  
  
AW10NHUGHA



200 L

HU102F20AHYA  
HU162F20AHYA

HU102F20AHYAE3  
HU162F20AHYAE3  
(Must be ordered  
separately)

Our all in one unit has the expansion vessel, flow switch and water pump inside the all in one unit.

The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

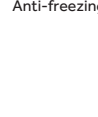
| Model                                                 |                                  |         | Hydro All in one<br>4kW-1Ph | Hydro All in one<br>6kW-1Ph | Hydro All in one<br>8kW-1Ph | Hydro All in one<br>10kW-1Ph | Hydro All in one<br>10kW-3Ph |
|-------------------------------------------------------|----------------------------------|---------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity                         | kW      | 4.00                        | 6.00                        | 8.00                        | 10.00                        | 10.00                        |
|                                                       | Power input                      | kW      | 0.73                        | 1.12                        | 1.50                        | 1.96                         | 1.96                         |
|                                                       | COP                              | W/W     | 5.50                        | 5.35                        | 5.35                        | 5.10                         | 5.10                         |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity                         | kW      | 4.00                        | 6.00                        | 8.00                        | 10.00                        | 10.00                        |
|                                                       | Power input                      | kW      | 1.19                        | 1.82                        | 2.35                        | 3.13                         | 3.13                         |
|                                                       | COP                              | W/W     | 3.35                        | 3.30                        | 3.40                        | 3.20                         | 3.20                         |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP                             | -       | 5.10                        | 5.10                        | 5.20                        | 5.10                         | 5.10                         |
|                                                       | ns                               | %       | 201                         | 201                         | 205                         | 201                          | 201                          |
|                                                       | Energy class                     | -       | A+++                        | A+++                        | A+++                        | A+++                         | A+++                         |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP                             | -       | 3.85                        | 3.83                        | 3.85                        | 3.83                         | 3.83                         |
|                                                       | ns                               | %       | 151                         | 150                         | 151                         | 150                          | 150                          |
|                                                       | Energy class                     | -       | A+++                        | A+++                        | A+++                        | A+++                         | A+++                         |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity                         | kW      | 4.00                        | 6.00                        | 7.50                        | 9.50                         | 9.50                         |
|                                                       | Power input                      | kW      | 0.79                        | 1.20                        | 1.58                        | 2.21                         | 2.21                         |
|                                                       | EER                              | -       | 5.05                        | 5.00                        | 4.75                        | 4.30                         | 4.30                         |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity                         | kW      | 3.50                        | 5.00                        | 6.80                        | 8.50                         | 8.50                         |
|                                                       | Power input                      | kW      | 0.95                        | 1.37                        | 1.97                        | 2.62                         | 2.62                         |
|                                                       | EER                              | -       | 3.70                        | 3.65                        | 3.45                        | 3.25                         | 3.25                         |
| Indoor Unit                                           |                                  |         | HU102F20AHYA                | HU102F20AHYA                | HU102F20AHYA                | HU102F20AHYA                 | HU102F20AHYAE3               |
| Leaving water<br>temperature range                    | Heating                          | °C      | 20-80                       | 20-80                       | 20-80                       | 20-80                        | 20-80                        |
|                                                       | Cooling                          | °C      | 5-25                        | 5-25                        | 5-25                        | 5-25                         | 5-25                         |
| Storage temperature<br>range (Tank)                   | DHW                              | °C      | 25-75                       | 25-75                       | 25-75                       | 25-75                        | 25-75                        |
| Water piping<br>Connection                            | Inlet/Outlet<br>(except for DHW) | inch    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                     | R 1/ R 1                     |
|                                                       | Inlet/Outlet (DHW)               | inch    | R 3/4                       | R 3/4                       | R 3/4                       | R 3/4                        | R 3/4                        |
| Expansion Tank                                        | L                                |         | 8                           | 8                           | 8                           | 8                            | 8                            |
| Primary circuit                                       | Pressure relief valve            | bar     | 3                           | 3                           | 3                           | 3                            | 3                            |
| Power supply                                          | V/ph/Hz                          |         | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 220-240/1/50                 |
| Max running current*(1)                               | A                                |         | 14.1                        | 14.1                        | 14.1                        | 14.1                         | 14.1                         |
| Recommended circuit breaker                           | A                                |         | 20.0                        | 20.0                        | 20.0                        | 20.0                         | 20.0                         |
| DHW Tank                                              | Type                             | -       | 2205 duplex stainless steel |                             |                             |                              |                              |
|                                                       | Tank Volume                      | L       | 200                         | 200                         | 200                         | 200                          | 200                          |
|                                                       | Maximum water<br>pressure limit  | bar     | 7                           | 7                           | 7                           | 7                            | 7                            |
|                                                       | Tank heater                      | kW      | 3                           | 3                           | 3                           | 3                            | 3                            |
| Declared load profile                                 | -                                | L       | L                           | L                           | L                           | L                            | L                            |
| COP*(2)                                               | -                                |         | 3.37                        | 3.37                        | 3.45                        | 3.45                         | 3.45                         |
| Water heating energy efficiency class                 | -                                | A+      | A+                          | A+                          | A+                          | A+                           | A+                           |
| Backup electric heater                                | Power supply                     | V/ph/Hz | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 380-415/3/50                 |
|                                                       | Capacity                         | kW      | 1+2                         | 1+2                         | 1+2                         | 1+2                          | 1+2                          |
|                                                       | Steps                            | -       | 3                           | 3                           | 3                           | 3                            | 3                            |
|                                                       | Max Running current              | A       | 14.0                        | 14.0                        | 14.0                        | 14.0                         | 5.0                          |
|                                                       | Recommended<br>circuit breaker   | A       | 20.0                        | 20.0                        | 20.0                        | 20.0                         | 10.0                         |
| Sound power level                                     | dB                               |         | 40                          | 40                          | 40                          | 40                           | 40                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 1780 × 590 × 595            | 1780 × 590 × 595            | 1780 × 590 × 595            | 1780 × 590 × 595             | 1780 × 590 × 595             |
| Packaging dimension                                   | (HxWxD)                          | mm      | 2060 × 695 × 695            | 2060 × 695 × 695            | 2060 × 695 × 695            | 2060 × 695 × 695             | 2060 × 695 × 695             |
| Net / Gross weight                                    | kg                               |         | 115 / 131                   | 115 / 131                   | 115 / 131                   | 115 / 131                    | 115.5 / 131.5                |
| Outdoor Unit                                          |                                  |         | AW042HUGHA                  | AW062HUGHA                  | AW082HUGHA                  | AW102HUGHA                   | AW10NHUGHA                   |
| Outdoor operating<br>temperature range                | Heating                          | °C      | -25 -35                     | -25 -35                     | -25 -35                     | -25 -35                      | -25 -35                      |
|                                                       | Cooling                          | °C      | 10 - 48                     | 10 - 48                     | 10 - 48                     | 10 - 48                      | 10 - 48                      |
|                                                       | DHW                              | °C      | -25 -43                     | -25 -43                     | -25 -43                     | -25 -43                      | -25 -43                      |
| Water piping connection                               | Inlet/Outlet                     | inch    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                     | R 1/ R 1                     |
| Compressor                                            | Quantity                         | -       | 1                           | 1                           | 1                           | 1                            | 1                            |
|                                                       | Type                             | -       | DC inverter twin rotary     |                             |                             |                              |                              |
| Refrigerant                                           | Type                             | -       | R290                        |                             |                             |                              |                              |
|                                                       | Charge/CO2 Eq.                   | kg/T    | 0.8/2.4                     | 0.8/2.4                     | 0.9/2.7                     | 0.9/2.7                      | 0.9/2.7                      |
| Sound pressure level *(3)                             | dB(A)                            |         | 44                          | 47                          | 48                          | 49                           | 49                           |
| Sound power level *(3)                                | dB                               |         | 55                          | 58                          | 59                          | 60                           | 60                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 790 × 1250 × 380            | 790 × 1250 × 380            | 790 × 1250 × 380            | 790 × 1250 × 380             | 790 × 1250 × 380             |
| Packaging dimension                                   | (HxWxD)                          | mm      | 1022 × 1395 × 550           | 1022 × 1395 × 550           | 1022 × 1395 × 550           | 1022 × 1395 × 550            | 1022 × 1395 × 550            |
| Net / Gross weight                                    | kg                               |         | 86/109                      | 86/109                      | 98/121                      | 98/121                       | 113/136                      |
| Power supply                                          | V/ph/Hz                          |         | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 380-415/3/50                 |
| Max running current                                   | A                                |         | 13.5                        | 13.5                        | 18.6                        | 18.6                         | 6.2                          |
| Recommended circuit breaker                           | A                                |         | 16.0                        | 16.0                        | 20.0                        | 20.0                         | 16.0                         |

\*(1) Max running current does not include backup electric heater, which is individually powered on.

\*(2) The testing conditions refer to EN16147 average climate

\*(3) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.



# HYDRO OUTDOOR & ALL-IN-ONE



AW122HVGHA  
AW142HVGHA  
AW162HVGHA

AW12NHVGHA  
AW14NHVGHA  
AW16NHVGHA



200 L

HU102F20AHYA  
HU162F20AHYA

HU102F20AHYAE3  
HU162F20AHYAE3  
(Must be ordered  
separately)

Our all in one unit has the expansion vessel ,  
flow switch and water pump inside the all in  
one unit.

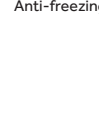
The all in one units have a wiring centre  
mounted inside them to make wiring  
simpler. It connects to the outdoor unit  
with a 2 core cable.

| Model                                                 |                                  |         | Hydro All in one<br>12kW-1Ph | Hydro All in one<br>14kW-1Ph | Hydro All in one<br>16kW-1Ph | Hydro All in one<br>12kW-3Ph | Hydro All in one<br>14kW-3Ph | Hydro All in one<br>16kW-3Ph |
|-------------------------------------------------------|----------------------------------|---------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity                         | kW      | 12.00                        | 14.00                        | 16.00                        | 12.00                        | 14.00                        | 16.00                        |
|                                                       | Power input                      | kW      | 2.35                         | 2.83                         | 3.23                         | 2.35                         | 2.83                         | 3.23                         |
|                                                       | COP                              | W/W     | 5.10                         | 4.95                         | 4.95                         | 5.10                         | 4.95                         | 4.95                         |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity                         | kW      | 11.50                        | 13.50                        | 15.50                        | 11.50                        | 13.50                        | 15.50                        |
|                                                       | Power input                      | kW      | 3.48                         | 4.22                         | 5.08                         | 3.48                         | 4.22                         | 5.08                         |
|                                                       | COP                              | W/W     | 3.30                         | 3.20                         | 3.05                         | 3.30                         | 3.20                         | 3.05                         |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP                             | -       | 4.82                         | 4.80                         | 4.80                         | 4.82                         | 4.80                         | 4.80                         |
|                                                       | ns                               | %       | 190                          | 189                          | 189                          | 190                          | 189                          | 189                          |
|                                                       | Energy class                     | -       | A+++                         | A+++                         | A+++                         | A+++                         | A+++                         | A+++                         |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP                             | -       | 3.85                         | 3.83                         | 3.85                         | 3.85                         | 3.83                         | 3.85                         |
|                                                       | ns                               | %       | 151                          | 150                          | 151                          | 151                          | 150                          | 151                          |
|                                                       | Energy class                     | -       | A+++                         | A+++                         | A+++                         | A+++                         | A+++                         | A+++                         |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity                         | kW      | 11.50                        | 13.50                        | 15.50                        | 11.50                        | 13.50                        | 15.50                        |
|                                                       | Power input                      | kW      | 2.56                         | 3.14                         | 3.88                         | 2.56                         | 3.14                         | 3.88                         |
|                                                       | EER                              | -       | 4.50                         | 4.30                         | 4.00                         | 4.50                         | 4.30                         | 4.00                         |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity                         | kW      | 10.00                        | 12.00                        | 14.00                        | 10.00                        | 12.00                        | 14.00                        |
|                                                       | Power input                      | kW      | 2.99                         | 3.75                         | 4.52                         | 2.99                         | 3.75                         | 4.52                         |
|                                                       | EER                              | -       | 3.35                         | 3.20                         | 3.10                         | 3.35                         | 3.20                         | 3.10                         |
| Indoor Unit                                           |                                  |         | HU162F20AHYA                 | HU162F20AHYA                 | HU162F20AHYA                 | HU162F20AHYAE3               | HU162F20AHYAE3               | HU162F20AHYAE3               |
| Leaving water<br>temperature range                    | Heating                          | °C      | 20-80                        | 20-80                        | 20-80                        | 20-80                        | 20-80                        | 20-80                        |
|                                                       | Cooling                          | °C      | 5-25                         | 5-25                         | 5-25                         | 5-25                         | 5-25                         | 5-25                         |
| Storage temperature<br>range (Tank)                   | DHW                              | °C      | 25-75                        | 25-75                        | 25-75                        | 25-75                        | 25-75                        | 25-75                        |
|                                                       |                                  |         |                              |                              |                              |                              |                              |                              |
| Water piping Connection                               | Inlet/Outlet<br>(except for DHW) | inch    | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      |
|                                                       | Inlet/Outlet (DHW)               | inch    | R 3/4                        | R 3/4                        | R 3/4                        | R 3/4                        | R 3/4                        | R 3/4                        |
| Expansion Tank                                        |                                  | L       | 8                            | 8                            | 8                            | 8                            | 8                            | 8                            |
| Primary circuit                                       | Pressure relief valve            | bar     | 3                            | 3                            | 3                            | 3                            | 3                            | 3                            |
| Power supply                                          |                                  | V/ph/Hz | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 |
| Max running current*(1)                               |                                  | A       | 15.0                         | 15.0                         | 15.0                         | 15.0                         | 15.0                         | 15.0                         |
| Recommended circuit breaker                           |                                  | A       | 20.0                         | 20.0                         | 20.0                         | 20.0                         | 20.0                         | 20.0                         |
| DHW Tank                                              | Type                             | -       | 2205 duplex stainless steel  |                              |                              |                              |                              |                              |
|                                                       | Tank Volume                      | L       | 200                          | 200                          | 200                          | 200                          | 200                          | 200                          |
|                                                       | Maximum water<br>pressure limit  | bar     | 7                            | 7                            | 7                            | 7                            | 7                            | 7                            |
|                                                       | Tank heater                      | kW      | 3                            | 3                            | 3                            | 3                            | 3                            | 3                            |
| Declared load profile                                 |                                  | -       | L                            | L                            | L                            | L                            | L                            | L                            |
| COP*(2)                                               |                                  | -       | 3.5                          | 3.5                          | 3.5                          | 3.5                          | 3.5                          | 3.5                          |
| Water heating energy efficiency class                 |                                  | -       | A+                           | A+                           | A+                           | A+                           | A+                           | A+                           |
| Backup electric heater                                | Power supply                     | V/ph/Hz | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 | 380-415/3/50                 | 380-415/3/50                 | 380-415/3/50                 |
|                                                       | Capacity                         | kW      | 2+4                          | 2+4                          | 2+4                          | 2+4                          | 2+4                          | 2+4                          |
|                                                       | Steps                            | -       | 3                            | 3                            | 3                            | 3                            | 3                            | 3                            |
|                                                       | Max Running current              | A       | 27.5                         | 27.5                         | 27.5                         | 9.5                          | 9.5                          | 9.5                          |
|                                                       | Recommended<br>circuit breaker   | A       | 40.0                         | 40.0                         | 40.0                         | 16.0                         | 16.0                         | 16.0                         |
| Sound power level                                     |                                  | dB      | 42                           | 42                           | 42                           | 42                           | 42                           | 42                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 1780 × 590 × 595             | 1780 × 590 × 595             | 1780 × 590 × 595             | 1780 × 590 × 595             | 1780 × 590 × 595             | 1780 × 590 × 595             |
| Packaging dimension                                   | (HxWxD)                          | mm      | 2060 × 695 × 695             | 2060 × 695 × 695             | 2060 × 695 × 695             | 2060 × 695 × 695             | 2060 × 695 × 695             | 2060 × 695 × 695             |
| Net / Gross weight                                    |                                  | kg      | 116.5 / 132.5                | 116.5 / 132.5                | 116.5 / 132.5                | 117 / 133                    | 117 / 133                    | 117 / 133                    |
| Outdoor Unit                                          |                                  |         | AW122HVGHA                   | AW142HVGHA                   | AW162HVGHA                   | AW12NHVGHA                   | AW14NHVGHA                   | AW16NHVGHA                   |
| Outdoor operating<br>temperature range                | Heating                          | °C      | -25 ~ 35                     | -25 ~ 35                     | -25 ~ 35                     | -25 ~ 35                     | -25 ~ 35                     | -25 ~ 35                     |
|                                                       | Cooling                          | °C      | 10 ~ 48                      | 10 ~ 48                      | 10 ~ 48                      | 10 ~ 48                      | 10 ~ 48                      | 10 ~ 48                      |
|                                                       | DHW                              | °C      | -25 ~ 43                     | -25 ~ 43                     | -25 ~ 43                     | -25 ~ 43                     | -25 ~ 43                     | -25 ~ 43                     |
| Water piping connection                               | Inlet/Outlet                     | inch    | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      |
|                                                       | Quantity                         | -       | 1                            | 1                            | 1                            | 1                            | 1                            | 1                            |
| Compressor                                            | Type                             | -       | DC inverter twin rotary      |                              |                              |                              |                              |                              |
|                                                       |                                  |         |                              |                              |                              |                              |                              |                              |
| Refrigerant                                           | Type                             | -       | R290                         |                              |                              |                              |                              |                              |
|                                                       | Charge/CO2 Eq.                   | kg/T    | 1.05/3.15                    | 1.05/3.15                    | 1.25/3.75                    | 1.05/3.15                    | 1.05/3.15                    | 1.25/3.75                    |
| Sound pressure level *(3)                             |                                  | dB(A)   | 52                           | 53                           | 55                           | 52                           | 53                           | 55                           |
| Sound power level *(3)                                |                                  | dB      | 63                           | 64                           | 66                           | 63                           | 64                           | 66                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 880 × 1250 × 460             | 880 × 1250 × 460             | 880 × 1250 × 460             | 880 × 1250 × 460             | 880 × 1250 × 460             | 880 × 1250 × 460             |
| Packaging dimension                                   | (HxWxD)                          | mm      | 1112 × 1396 × 630            | 1112 × 1396 × 630            | 1112 × 1396 × 630            | 1112 × 1396 × 630            | 1112 × 1396 × 630            | 1112 × 1396 × 630            |
| Net / Gross weight                                    |                                  | kg      | 114/140                      | 114/140                      | 123/149                      | 129/155                      | 129/155                      | 138/164                      |
| Power supply                                          |                                  | V/ph/Hz | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 | 380-415/3/50                 | 380-415/3/50                 | 380-415/3/50                 |
| Max running current                                   |                                  | A       | 30.6                         | 30.6                         | 34.8                         | 10.2                         | 10.2                         | 11.6                         |
| Recommended circuit breaker                           |                                  | A       | 32.0                         | 32.0                         | 40.0                         | 16.0                         | 16.0                         | 16.0                         |

\*(1)Max running current does not include backup electric heater, which is individually powered on.

\*(2)The testing conditions refer to EN16147 average climate

\*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)



R290

## HYDRO OUTDOOR &amp; ALL-IN-ONE



AW042HUGHA  
AW062HUGHA  
AW082HUGHA  
AW102HUGHA  
AW10NHUGHA



NEW

240 L

HU102F24AHYA  
HU162F24AHYA  
HU102F24AHYAE3  
(Must be ordered separately)

Our all in one unit has the expansion vessel, flow switch and water pump inside the all in one unit.

The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

| Model                                                 |                                  |         | Hydro All in one<br>4kW-1Ph | Hydro All in one<br>6kW-1Ph | Hydro All in one<br>8kW-1Ph | Hydro All in one<br>10kW-1Ph | Hydro All in one<br>10kW-3Ph |
|-------------------------------------------------------|----------------------------------|---------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity                         | kW      | 4.00                        | 6.00                        | 8.00                        | 10.00                        | 10.00                        |
|                                                       | Power input                      | kW      | 0.73                        | 1.12                        | 1.50                        | 1.96                         | 1.96                         |
|                                                       | COP                              | W/W     | 5.50                        | 5.35                        | 5.35                        | 5.10                         | 5.10                         |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity                         | kW      | 4.00                        | 6.00                        | 8.00                        | 10.00                        | 10.00                        |
|                                                       | Power input                      | kW      | 1.19                        | 1.82                        | 2.35                        | 3.13                         | 3.13                         |
|                                                       | COP                              | W/W     | 3.35                        | 3.30                        | 3.40                        | 3.20                         | 3.20                         |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP                             | -       | 5.10                        | 5.10                        | 5.20                        | 5.10                         | 5.10                         |
|                                                       | ns                               | %       | 201                         | 201                         | 205                         | 201                          | 201                          |
|                                                       | Energy class                     | -       | A+++                        | A+++                        | A+++                        | A+++                         | A+++                         |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP                             | -       | 3.85                        | 3.83                        | 3.85                        | 3.83                         | 3.83                         |
|                                                       | ns                               | %       | 151                         | 150                         | 151                         | 150                          | 150                          |
|                                                       | Energy class                     | -       | A+++                        | A+++                        | A+++                        | A+++                         | A+++                         |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity                         | kW      | 4.00                        | 6.00                        | 7.50                        | 9.50                         | 9.50                         |
|                                                       | Power input                      | kW      | 0.79                        | 1.20                        | 1.58                        | 2.21                         | 2.21                         |
|                                                       | EER                              | -       | 5.05                        | 5.00                        | 4.75                        | 4.30                         | 4.30                         |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity                         | kW      | 3.50                        | 5.00                        | 6.80                        | 8.50                         | 8.50                         |
|                                                       | Power input                      | kW      | 0.95                        | 1.37                        | 1.97                        | 2.62                         | 2.62                         |
|                                                       | EER                              | -       | 3.70                        | 3.65                        | 3.45                        | 3.25                         | 3.25                         |
| Indoor Unit                                           |                                  |         | HU102F24AHYA                | HU102F24AHYA                | HU162F24AHYA                | HU162F24AHYA                 | HU102F24AHYAE3               |
| Leaving water<br>temperature range                    | Heating                          | °C      | 20-80                       | 20-80                       | 20-80                       | 20-80                        | 20-80                        |
|                                                       | Cooling                          | °C      | 5-25                        | 5-25                        | 5-25                        | 5-25                         | 5-25                         |
| Storage temperature<br>range (Tank)                   | DHW                              | °C      | 25-75                       | 25-75                       | 25-75                       | 25-75                        | 25-75                        |
| Water piping Connection                               | Inlet/Outlet<br>(except for DHW) | inch    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                     | R 1/ R 1                     |
|                                                       | Inlet/Outlet (DHW)               | inch    | R 3/4                       | R 3/4                       | R 3/4                       | R 3/4                        | R 3/4                        |
| Expansion Tank                                        |                                  | L       | 8                           | 8                           | 8                           | 8                            | 8                            |
| Primary circuit                                       | Pressure relief valve            | bar     | 3                           | 3                           | 3                           | 3                            | 3                            |
| Power supply                                          |                                  | V/ph/Hz | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 220-240/1/50                 |
| Max running current*(1)                               |                                  | A       | 14.1                        | 14.1                        | 14.1                        | 14.1                         | 14.1                         |
| Recommended circuit breaker                           |                                  | A       | 20.0                        | 20.0                        | 20.0                        | 20.0                         | 20.0                         |
| DHW Tank                                              | Type                             | -       | 2205 duplex stainless steel |                             |                             |                              |                              |
|                                                       | Tank Volume                      | L       | 240                         | 240                         | 240                         | 240                          | 240                          |
|                                                       | Maximum water<br>pressure limit  | bar     | 7                           | 7                           | 7                           | 7                            | 7                            |
|                                                       | Tank heater                      | kW      | 3                           | 3                           | 3                           | 3                            | 3                            |
| Declared load profile                                 |                                  | -       | XL                          | XL                          | XL                          | XL                           | XL                           |
| COPx(2)                                               |                                  | -       | 3.17                        | 3.17                        | 3.17                        | 3.17                         | 3.13                         |
| Water heating energy efficiency class                 |                                  | -       | A+                          | A+                          | A+                          | A+                           | A+                           |
| Backup electric heater                                | Power supply                     | V/ph/Hz | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 380-415/3/50                 |
|                                                       | Capacity                         | kW      | 1+2                         | 1+2                         | 1+2                         | 1+2                          | 1+2                          |
|                                                       | Steps                            | -       | 3                           | 3                           | 3                           | 3                            | 3                            |
|                                                       | Max Running current              | A       | 14.0                        | 14.0                        | 14.0                        | 14.0                         | 9.5                          |
|                                                       | Recommended<br>circuit breaker   | A       | 20.0                        | 20.0                        | 20.0                        | 20.0                         | 16.0                         |
| Sound power level                                     |                                  | dB      | 40                          | 40                          | 40                          | 40                           | 42                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 1985x590x590                | 1985x590x590                | 1985x590x590                | 1985x590x590                 | 1985x590x590                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 2265x695x695                | 2265x695x695                | 2265x695x695                | 2265x695x695                 | 2265x695x695                 |
| Net / Gross weight                                    |                                  | kg      | 120.5 / 139.5               | 120.5 / 139.5               | 120.5 / 139.5               | 120.5 / 139.5                | 122 / 141                    |
| Outdoor Unit                                          |                                  |         | AW042HUGHA                  | AW062HUGHA                  | AW082HUGHA                  | AW102HUGHA                   | AW10NHUGHA                   |
| Outdoor operating<br>temperature range                | Heating                          | °C      | -25 ~ 35                    | -25 ~ 35                    | -25 ~ 35                    | -25 ~ 35                     | -25 ~ 35                     |
|                                                       | Cooling                          | °C      | 10 ~ 48                     | 10 ~ 48                     | 10 ~ 48                     | 10 ~ 48                      | 10 ~ 48                      |
|                                                       | DHW                              | °C      | -25 ~ 43                    | -25 ~ 43                    | -25 ~ 43                    | -25 ~ 43                     | -25 ~ 43                     |
| Water piping connection                               | Inlet/Outlet                     | inch    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                    | R 1/ R 1                     | R 1/ R 1                     |
| Compressor                                            | Quantity                         | -       | 1                           | 1                           | 1                           | 1                            | 1                            |
|                                                       | Type                             | -       | DC inverter twin rotary     |                             |                             |                              |                              |
| Refrigerant                                           | Type                             | -       | R290                        |                             |                             |                              |                              |
|                                                       | Charge/CO2 Eq.                   | kg/T    | 0.8/2.4                     | 0.8/2.4                     | 0.9/2.7                     | 0.9/2.7                      | 1.05/3.15                    |
| Sound pressure level *(3)                             |                                  | dB(A)   | 44                          | 47                          | 48                          | 49                           | 52                           |
| Sound power level *(3)                                |                                  | dB      | 55                          | 58                          | 59                          | 60                           | 63                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 790x1250x380                | 790x1250x380                | 790x1250x380                | 790x1250x380                 | 880x1250x460                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 1022x1395x550               | 1022x1395x550               | 1022x1395x550               | 1022x1395x550                | 1112x1396x630                |
| Net / Gross weight                                    |                                  | kg      | 82/106                      | 82/106                      | 91/115                      | 91/115                       | 111/138                      |
| Power supply                                          |                                  | V/ph/Hz | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                | 220-240/1/50                 | 380-415/3/50                 |
| Max running current                                   |                                  | A       | 13.5                        | 13.5                        | 18.6                        | 18.6                         | 6.2                          |
| Recommended circuit breaker                           |                                  | A       | 16.0                        | 16.0                        | 20.0                        | 20.0                         | 16.0                         |

\*(1) Max running current does not include backup electric heater, which is individually powered on.

\*(2) The testing conditions refer to EN16147 average climate

\*(3) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.





## HYDRO OUTDOOR &amp; ALL-IN-ONE



AW122HVGHA  
AW142HVGHA  
AW162HVGHA



NEW

240 L

HU162F24AHYA  
(Must be ordered  
separately)

Our all in one unit has the expansion vessel ,  
flow switch and water pump inside the all in  
one unit.

The all in one units have a wiring centre  
mounted inside them to make wiring  
simpler. It connects to the outdoor unit  
with a 2 core cable.

| Model                                                 |                                  |         | Hydro All in one<br>12kW-1Ph | Hydro All in one<br>14kW-1Ph | Hydro All in one<br>16kW-1Ph |
|-------------------------------------------------------|----------------------------------|---------|------------------------------|------------------------------|------------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity                         | kW      | 12.00                        | 14.00                        | 16.00                        |
|                                                       | Power input                      | kW      | 2.35                         | 2.83                         | 3.23                         |
|                                                       | COP                              | W/W     | 5.10                         | 4.95                         | 4.95                         |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity                         | kW      | 11.50                        | 13.50                        | 15.50                        |
|                                                       | Power input                      | kW      | 3.48                         | 4.22                         | 5.08                         |
|                                                       | COP                              | W/W     | 3.30                         | 3.20                         | 3.05                         |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP                             | -       | 4.82                         | 4.80                         | 4.80                         |
|                                                       | ns                               | %       | 190                          | 189                          | 189                          |
|                                                       | Energy class                     | -       | A+++                         | A+++                         | A+++                         |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP                             | -       | 3.85                         | 3.83                         | 3.85                         |
|                                                       | ns                               | %       | 151                          | 150                          | 151                          |
|                                                       | Energy class                     | -       | A+++                         | A+++                         | A+++                         |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity                         | kW      | 11.50                        | 13.50                        | 15.50                        |
|                                                       | Power input                      | kW      | 2.56                         | 3.14                         | 3.88                         |
|                                                       | EER                              | -       | 4.50                         | 4.30                         | 4.00                         |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity                         | kW      | 10.00                        | 12.00                        | 14.00                        |
|                                                       | Power input                      | kW      | 2.99                         | 3.75                         | 4.52                         |
|                                                       | EER                              | -       | 3.35                         | 3.20                         | 3.10                         |
| Indoor Unit                                           |                                  |         | HU162F24AHYA                 | HU162F24AHYA                 | HU162F24AHYA                 |
| Leaving water<br>temperature range                    | Heating                          | °C      | 20-80                        | 20-80                        | 20-80                        |
|                                                       | Cooling                          | °C      | 5-25                         | 5-25                         | 5-25                         |
| Storage temperature<br>range (Tank)                   | DHW                              | °C      | 25-75                        | 25-75                        | 25-75                        |
| Water piping Connection                               | Inlet/Outlet<br>(except for DHW) | inch    | R 1/ R 1                     | R 1/ R 1                     | R 1/ R 1                     |
|                                                       | Inlet/Outlet (DHW)               | inch    | R 3/4                        | R 3/4                        | R 3/4                        |
| Expansion Tank                                        | L                                |         | 8                            | 8                            | 8                            |
| Primary circuit                                       | Pressure relief valve            | bar     | 3                            | 3                            | 3                            |
| Power supply                                          | V/ph/Hz                          |         | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 |
| Max running current*(1)                               | A                                |         | 15.0                         | 15.0                         | 15.0                         |
| Recommended circuit breaker                           | A                                |         | 20.0                         | 20.0                         | 20.0                         |
| DHW Tank                                              | Type                             | -       | 2205 duplex stainless steel  |                              |                              |
|                                                       | Tank Volume                      | L       | 240                          | 240                          | 240                          |
|                                                       | Maximum water<br>pressure limit  | bar     | 7                            | 7                            | 7                            |
|                                                       | Tank heater                      | kW      | 3                            | 3                            | 3                            |
| Declared load profile                                 | -                                |         | XL                           | XL                           | XL                           |
| COPx(2)                                               | -                                |         | 3.13                         | 3.13                         | 3.13                         |
| Water heating energy efficiency class                 | -                                |         | A+                           | A+                           | A+                           |
| Backup electric heater                                | Power supply                     | V/ph/Hz | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 |
|                                                       | Capacity                         | kW      | 2+4                          | 2+4                          | 2+4                          |
|                                                       | Steps                            | -       | 3                            | 3                            | 3                            |
|                                                       | Max Running current              | A       | 27.5                         | 27.5                         | 27.5                         |
|                                                       | Recommended<br>circuit breaker   | A       | 40.0                         | 40.0                         | 40.0                         |
| Sound power level                                     | dB                               |         | 42                           | 42                           | 42                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 1985x590x590                 | 1985x590x590                 | 1985x590x590                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 2265x695x695                 | 2265x695x695                 | 2265x695x695                 |
| Net / Gross weight                                    | kg                               |         | 122 / 141                    | 122 / 141                    | 122 / 141                    |
| Outdoor Unit                                          |                                  |         | AW122HVGHA                   | AW142HVGHA                   | AW162HVGHA                   |
| Outdoor operating<br>temperature range                | Heating                          | °C      | -25 ~ 35                     | -25 ~ 35                     | -25 ~ 35                     |
|                                                       | Cooling                          | °C      | 10 ~ 48                      | 10 ~ 48                      | 10 ~ 48                      |
|                                                       | DHW                              | °C      | -25 ~ 43                     | -25 ~ 43                     | -25 ~ 43                     |
| Water piping connection                               | Inlet/Outlet                     | inch    | R 1/ R 1                     | R 1/ R 1                     | R 1/ R 1                     |
| Compressor                                            | Quantity                         | -       | 1                            | 1                            | 1                            |
|                                                       | Type                             | -       | DC inverter twin rotary      |                              |                              |
| Refrigerant                                           | Type                             | -       | R290                         |                              |                              |
|                                                       | Charge/CO2 Eq.                   | kg/T    | 1.05/3.15                    | 1.05/3.15                    | 1.25/3.75                    |
| Sound pressure level *(3)                             | dB(A)                            |         | 52                           | 53                           | 55                           |
| Sound power level *(3)                                | dB                               |         | 63                           | 64                           | 66                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 880x1250x460                 | 880x1250x460                 | 880x1250x460                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 1112x1396x630                | 1112x1396x630                | 1112x1396x630                |
| Net / Gross weight                                    | kg                               |         | 111/138                      | 111/138                      | 115/142                      |
| Power supply                                          | V/ph/Hz                          |         | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 |
| Max running current                                   | A                                |         | 30.6                         | 30.6                         | 34.8                         |
| Recommended circuit breaker                           | A                                |         | 32.0                         | 32.0                         | 40.0                         |

\*(1)Max running current does not include backup electric heater, which is individually powered on.

\*(2)The testing conditions refer to EN16147 average climate

\*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)



R290

## HYDRO OUTDOOR &amp; ALL-IN-ONE



AW12NHVGHA  
AW14NHVGHA  
AW16NHVGHA



NEW

240 L

HU102F24AHYA  
HU102F24AHYAE  
HU162F24AHYA  
HU162F24AHYAE3  
(Must be ordered  
separately)

Our all in one unit has the expansion vessel, flow switch and water pump inside the all in one unit.

The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

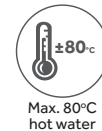
| Model                                                 |                                  |         | Hydro All in one<br>12kW-3Ph | Hydro All in one<br>14kW-3Ph | Hydro All in one<br>16kW-3Ph |
|-------------------------------------------------------|----------------------------------|---------|------------------------------|------------------------------|------------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity                         | kW      | 12.00                        | 14.00                        | 16.00                        |
|                                                       | Power input                      | kW      | 2.35                         | 2.83                         | 3.23                         |
|                                                       | COP                              | W/W     | 5.10                         | 4.95                         | 4.95                         |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity                         | kW      | 11.50                        | 13.50                        | 15.50                        |
|                                                       | Power input                      | kW      | 3.48                         | 4.22                         | 5.08                         |
|                                                       | COP                              | W/W     | 3.30                         | 3.20                         | 3.05                         |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP                             | -       | 4.82                         | 4.80                         | 4.80                         |
|                                                       | ns                               | %       | 190                          | 189                          | 189                          |
|                                                       | Energy class                     | -       | A+++                         | A+++                         | A+++                         |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP                             | -       | 3.85                         | 3.83                         | 3.85                         |
|                                                       | ns                               | %       | 151                          | 150                          | 151                          |
|                                                       | Energy class                     | -       | A+++                         | A+++                         | A+++                         |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity                         | kW      | 11.50                        | 13.50                        | 15.50                        |
|                                                       | Power input                      | kW      | 2.56                         | 3.14                         | 3.88                         |
|                                                       | EER                              | -       | 4.50                         | 4.30                         | 4.00                         |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity                         | kW      | 10.00                        | 12.00                        | 14.00                        |
|                                                       | Power input                      | kW      | 2.99                         | 3.75                         | 4.52                         |
|                                                       | EER                              | -       | 3.35                         | 3.20                         | 3.10                         |
| Indoor Unit                                           |                                  |         | HU162F24AHYAE3               | HU162F24AHYAE3               | HU162F24AHYAE3               |
| Leaving water<br>temperature range                    | Heating                          | °C      | 20-80                        | 20-80                        | 20-80                        |
|                                                       | Cooling                          | °C      | 5-25                         | 5-25                         | 5-25                         |
| Storage temperature<br>range (Tank)                   | DHW                              | °C      | 25-75                        | 25-75                        | 25-75                        |
| Water piping Connection                               | Inlet/Outlet<br>(except for DHW) | inch    | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      |
|                                                       | Inlet/Outlet (DHW)               | inch    | R 3/4                        | R 3/4                        | R 3/4                        |
| Expansion Tank                                        |                                  | L       | 8                            | 8                            | 8                            |
| Primary circuit                                       | Pressure relief valve            | bar     | 3                            | 3                            | 3                            |
| Power supply                                          |                                  | V/ph/Hz | 220-240/1/50                 | 220-240/1/50                 | 220-240/1/50                 |
| Max running current*(1)                               |                                  | A       | 15.0                         | 15.0                         | 15.0                         |
| Recommended circuit breaker                           |                                  | A       | 20.0                         | 20.0                         | 20.0                         |
| DHW Tank                                              | Type                             | -       | 2205 duplex stainless steel  |                              |                              |
|                                                       | Tank Volume                      | L       | 240                          | 240                          | 240                          |
|                                                       | Maximum water<br>pressure limit  | bar     | 7                            | 7                            | 7                            |
|                                                       | Tank heater                      | kW      | 3                            | 3                            | 3                            |
| Declared load profile                                 |                                  | -       | XL                           | XL                           | XL                           |
| COPx(2)                                               |                                  | -       | 3.13                         | 3.13                         | 3.13                         |
| Water heating energy efficiency class                 |                                  | -       | A+                           | A+                           | A+                           |
| Backup electric heater                                | Power supply                     | V/ph/Hz | 380-415/3/50                 | 380-415/3/50                 | 380-415/3/50                 |
|                                                       | Capacity                         | kW      | 2+4                          | 2+4                          | 2+4                          |
|                                                       | Steps                            | -       | 2                            | 2                            | 2                            |
|                                                       | Max Running current              | A       | 27.5                         | 27.5                         | 27.5                         |
|                                                       | Recommended<br>circuit breaker   | A       | 16.0                         | 16.0                         | 16.0                         |
| Sound power level                                     |                                  | dB      | 42                           | 42                           | 42                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 1985x590x590                 | 1985x590x590                 | 1985x590x590                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 2265x695x695                 | 2265x695x695                 | 2265x695x695                 |
| Net / Gross weight                                    |                                  | kg      | 122 / 141                    | 122 / 141                    | 122 / 141                    |
| Outdoor Unit                                          |                                  |         | AW12NHVGHA                   | AW14NHVGHA                   | AW16NHVGHA                   |
| Outdoor operating<br>temperature range                | Heating                          | °C      | -25 ~ 35                     | -25 ~ 35                     | -25 ~ 35                     |
|                                                       | Cooling                          | °C      | 10 ~ 48                      | 10 ~ 48                      | 10 ~ 48                      |
|                                                       | DHW                              | °C      | -25 ~ 43                     | -25 ~ 43                     | -25 ~ 43                     |
| Water piping connection                               | Inlet/Outlet                     | inch    | R 1/R 1                      | R 1/R 1                      | R 1/R 1                      |
| Compressor                                            | Quantity                         | -       | 1                            | 1                            | 1                            |
|                                                       | Type                             | -       | DC inverter twin rotary      |                              |                              |
| Refrigerant                                           | Type                             | -       | R290                         |                              |                              |
|                                                       | Charge/CO2 Eq.                   | kg/T    | 1.05/3.15                    | 1.05/3.15                    | 1.25/3.75                    |
| Sound pressure level *(3)                             |                                  | dB(A)   | 52                           | 53                           | 55                           |
| Sound power level *(3)                                |                                  | dB      | 63                           | 64                           | 66                           |
| Net Dimension                                         | (HxWxD)                          | mm      | 880x1250x460                 | 880x1250x460                 | 880x1250x460                 |
| Packaging dimension                                   | (HxWxD)                          | mm      | 1112x1396x630                | 1112x1396x630                | 1112x1396x630                |
| Net / Gross weight                                    |                                  | kg      | 132/159                      | 132/159                      | 136/163                      |
| Power supply                                          |                                  | V/ph/Hz | 380-415/3/50                 | 380-415/3/50                 | 380-415/3/50                 |
| Max running current                                   |                                  | A       | 10.2                         | 10.2                         | 11.6                         |
| Recommended circuit breaker                           |                                  | A       | 16.0                         | 16.0                         | 16.0                         |

\*(1) Max running current does not include backup electric heater, which is individually powered on.

\*(2) The testing conditions refer to EN16147 average climate

\*(3) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.



# HYDRO OUTDOOR & MODULE



AW042HUGHA  
AW062HUGHA  
AW082HUGHA  
AW102HUGHA  
  
AW10NHUGHA



HU102WAHYA  
HU162WAHYA  
  
HU10NWAHYAE3  
HU16NWAHYAE3

Our hydro Module indoor unit has the expansion vessel , flow switch and water pump inside the all in one unit.

The Hydro Module units has a wiring centre mounted inside them to make wiring simpler. It connects to he outdoor unit with a 2 core cable

| Product Data                                          |                |       | Hydro Split<br>4kW-1Ph  | Hydro Split<br>6kW-1Ph | Hydro Split<br>8kW-1Ph | Hydro Split<br>10kW-1Ph | Hydro Split<br>10kW-3Ph |
|-------------------------------------------------------|----------------|-------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity       | kW    | 4.00                    | 6.00                   | 8.00                   | 10.00                   | 10.00                   |
|                                                       | Power input    | kW    | 0.73                    | 1.12                   | 1.50                   | 1.96                    | 1.96                    |
|                                                       | COP            | W/W   | 5.50                    | 5.35                   | 5.35                   | 5.10                    | 5.10                    |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity       | kW    | 4.00                    | 6.00                   | 8.00                   | 10.00                   | 10.00                   |
|                                                       | Power input    | kW    | 1.19                    | 1.82                   | 2.35                   | 3.13                    | 3.13                    |
|                                                       | COP            | W/W   | 3.35                    | 3.30                   | 3.40                   | 3.20                    | 3.20                    |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP           | -     | 5.10                    | 5.10                   | 5.20                   | 5.10                    | 5.10                    |
|                                                       | ns             | %     | 201                     | 201                    | 205                    | 201                     | 201                     |
|                                                       | Energy class   | -     | A+++                    | A+++                   | A+++                   | A+++                    | A+++                    |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP           | -     | 3.85                    | 3.83                   | 3.85                   | 3.83                    | 3.83                    |
|                                                       | ns             | %     | 151                     | 150                    | 151                    | 150                     | 150                     |
|                                                       | Energy class   | -     | A+++                    | A+++                   | A+++                   | A+++                    | A+++                    |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity       | kW    | 4.00                    | 6.00                   | 7.50                   | 9.50                    | 9.50                    |
|                                                       | Power input    | kW    | 0.79                    | 1.20                   | 1.58                   | 2.21                    | 2.21                    |
|                                                       | EER            | -     | 5.05                    | 5.00                   | 4.75                   | 4.30                    | 4.30                    |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity       | kW    | 3.50                    | 5.00                   | 6.80                   | 8.50                    | 8.50                    |
|                                                       | Power input    | kW    | 0.95                    | 1.37                   | 1.97                   | 2.62                    | 2.62                    |
|                                                       | EER            | -     | 3.70                    | 3.65                   | 3.45                   | 3.25                    | 3.25                    |
| Indoor Unit                                           |                |       | HU102WAHYA              | HU102WAHYA             | HU102WAHYA             | HU102WAHYA              | HU10NWAHYAE3            |
| Leaving water<br>temperature range                    | Heating        | °C    | 20-80                   | 20-80                  | 20-80                  | 20-80                   | 20-80                   |
|                                                       | Cooling        | °C    | 5-25                    | 5-25                   | 5-25                   | 5-25                    | 5-25                    |
| Storage temperature<br>range (Tank)                   | DHW            | °C    | 25-75                   | 25-75                  | 25-75                  | 25-75                   | 25-75                   |
| Water piping Connection                               | Inlet/Outlet   | inch  | R 1/R 1                 | R 1/R 1                | R 1/R 1                | R 1/R 1                 | R 1/R 1                 |
| Expansion Tank                                        | L              |       | 8                       | 8                      | 8                      | 8                       | 8                       |
| Backup electric heater                                | Capacity       | kW    | 1+2                     | 1+2                    | 1+2                    | 1+2                     | 1+2                     |
| Power supply                                          | V/ph/Hz        |       | 220-240/1/50            | 220-240/1/50           | 220-240/1/50           | 220-240/1/50            | 380-415/3/50            |
| Max running current                                   | A              |       | 14.1                    | 14.1                   | 14.1                   | 14.1                    | 5.0                     |
| Recommended circuit breaker                           | A              |       | 20.0                    | 20.0                   | 20.0                   | 20.0                    | 10.0                    |
| Sound power level                                     | dB             |       | 40                      | 40                     | 40                     | 40                      | 40                      |
| Net Dimension                                         | (HxWxD)        | mm    | 850 × 480 × 310         | 850 × 480 × 310        | 850 × 480 × 310        | 850 × 480 × 310         | 850 × 480 × 310         |
| Packaging dimension                                   | (HxWxD)        | mm    | 1020 × 580 × 460        | 1020 × 580 × 460       | 1020 × 580 × 460       | 1020 × 580 × 460        | 1020 × 580 × 460        |
| Net / Gross weight                                    | HU1*2WAHYA**   | kg    | 35.5 / 49               | 35.5 / 49              | 35.5 / 49              | 35.5 / 49               | 36 / 49.5               |
|                                                       | HU1*2WAHYB**   | kg    | 32.5/46                 | 32.5/46                | 32.5/46                | 32.5/46                 | /                       |
| Outdoor Unit                                          |                |       | AW042HUGHA              | AW062HUGHA             | AW082HUGHA             | AW102HUGHA              | AW10NHUGHA              |
| Outdoor operating<br>temperature range                | Heating        | °C    | -25~35                  | -25~35                 | -25~35                 | -25~35                  | -25~35                  |
|                                                       | Cooling        | °C    | 10~48                   | 10~48                  | 10~48                  | 10~48                   | 10~48                   |
|                                                       | DHW            | °C    | -25~43                  | -25~43                 | -25~43                 | -25~43                  | -25~43                  |
| Water piping connection                               | Inlet/Outlet   | inch  | R 1/R 1                 | R 1/R 1                | R 1/R 1                | R 1/R 1                 | R 1/R 1                 |
| Compressor                                            | Quantity       | -     | 1                       | 1                      | 1                      | 1                       | 1                       |
|                                                       | Type           | -     | DC inverter twin rotary |                        |                        |                         |                         |
| Refrigerant                                           | Type           | -     | R290                    |                        |                        |                         |                         |
|                                                       | Charge/CO2 Eq. | kg/T  | 0.8/2.4                 | 0.8/2.4                | 0.9/2.7                | 0.9/2.7                 | 0.9/2.7                 |
| Sound pressure level *(1)                             |                | dB(A) | 44                      | 47                     | 48                     | 49                      | 49                      |
| Sound power level *(1)                                |                | dB    | 55                      | 58                     | 59                     | 60                      | 60                      |
| Net Dimension                                         | (HxWxD)        | mm    | 790 × 1250 × 380        | 790 × 1250 × 380       | 790 × 1250 × 380       | 790 × 1250 × 380        | 790 × 1250 × 380        |
| Packaging dimension                                   | (HxWxD)        | mm    | 1022 × 1395 × 550       | 1022 × 1395 × 550      | 1022 × 1395 × 550      | 1022 × 1395 × 550       | 1022 × 1395 × 550       |
| Net / Gross weight                                    |                | kg    | 86/109                  | 86/109                 | 98/121                 | 98/121                  | 113/136                 |
|                                                       |                |       |                         |                        |                        |                         |                         |
| Power supply                                          | V/ph/Hz        |       | 220-240/1/50            | 220-240/1/50           | 220-240/1/50           | 220-240/1/50            | 380-415/3/50            |
| Max running current                                   | A              |       | 13.5                    | 13.5                   | 18.6                   | 18.6                    | 6.2                     |
| Recommended circuit breaker                           | A              |       | 16.0                    | 16.0                   | 20.0                   | 20.0                    | 16.0                    |

\*(1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

\* HU1\*2WAHYA\*\* stands for the unit without 3-way valve, with expansion tank

\* HU1\*2WAHYB\*\* stands for the unit with 3-way valve, without expansion tank



R290

## HYDRO OUTDOOR &amp; MODULE



AW122HVGHA  
AW142HVGHA  
AW162HVGHA

AW12NHVGHA  
AW14NHVGHA  
AW16NHVGHA



HU102WAHYA  
HU162WAHYA

HU10NWAHYAE3  
HU16NWAHYAE3

Our hydro Module indoor unit has the expansion vessel , flow switch and water pump inside the all in one unit.

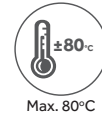
The Hydro Module units has a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable

| Product Data                                          |                |      | Hydro Split<br>12kW-1Ph | Hydro Split<br>14kW-1Ph | Hydro Split<br>16kW-1Ph | Hydro Split<br>12kW-3Ph | Hydro Split<br>14kW-3Ph | Hydro Split<br>16kW-3Ph |
|-------------------------------------------------------|----------------|------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity       | kW   | 12.00                   | 14.00                   | 16.00                   | 12.00                   | 14.00                   | 16.00                   |
|                                                       | Power input    | kW   | 2.35                    | 2.83                    | 3.23                    | 2.35                    | 2.83                    | 3.23                    |
|                                                       | COP            | W/W  | 5.10                    | 4.95                    | 4.95                    | 5.10                    | 4.95                    | 4.95                    |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity       | kW   | 11.50                   | 13.50                   | 15.50                   | 11.50                   | 13.50                   | 15.50                   |
|                                                       | Power input    | kW   | 3.48                    | 4.22                    | 5.08                    | 3.48                    | 4.22                    | 5.08                    |
|                                                       | COP            | W/W  | 3.30                    | 3.20                    | 3.05                    | 3.30                    | 3.20                    | 3.05                    |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP           | -    | 4.82                    | 4.80                    | 4.80                    | 4.82                    | 4.80                    | 4.80                    |
|                                                       | ns             | %    | 190                     | 189                     | 189                     | 190                     | 189                     | 189                     |
|                                                       | Energy class   | -    | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP           | -    | 3.85                    | 3.83                    | 3.85                    | 3.85                    | 3.83                    | 3.85                    |
|                                                       | ns             | %    | 151                     | 150                     | 151                     | 151                     | 150                     | 151                     |
|                                                       | Energy class   | -    | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity       | kW   | 11.50                   | 13.50                   | 15.50                   | 11.50                   | 13.50                   | 15.50                   |
|                                                       | Power input    | kW   | 2.56                    | 3.14                    | 3.88                    | 2.56                    | 3.14                    | 3.88                    |
|                                                       | EER            | -    | 4.50                    | 4.30                    | 4.00                    | 4.50                    | 4.30                    | 4.00                    |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity       | kW   | 10.00                   | 12.00                   | 14.00                   | 10.00                   | 12.00                   | 14.00                   |
|                                                       | Power input    | kW   | 2.99                    | 3.75                    | 4.52                    | 2.99                    | 3.75                    | 4.52                    |
|                                                       | EER            | -    | 3.35                    | 3.20                    | 3.10                    | 3.35                    | 3.20                    | 3.10                    |
| Indoor Unit                                           |                |      | HU162WAHYA              | HU162WAHYA              | HU162WAHYA              | HU16NWAHYAE3            | HU16NWAHYAE3            | HU16NWAHYAE3            |
| Leaving water<br>temperature range                    | Heating        | °C   | 20-80                   | 20-80                   | 20-80                   | 20-80                   | 20-80                   | 20-80                   |
|                                                       | Cooling        | °C   | 5-25                    | 5-25                    | 5-25                    | 5-25                    | 5-25                    | 5-25                    |
| Storage temperature<br>range (Tank)                   | DHW            | °C   | 25-75                   | 25-75                   | 25-75                   | 25-75                   | 25-75                   | 25-75                   |
| Water piping Connection                               | Inlet/Outlet   | inch | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 |
| Expansion Tank                                        | L              | L    | 8                       | 8                       | 8                       | 8                       | 8                       | 8                       |
| Backup electric heater                                | Capacity       | kW   | 2+4                     | 2+4                     | 2+4                     | 2+4                     | 2+4                     | 2+4                     |
| Power supply                                          | V/ph/Hz        |      | 220-240/1/50            | 220-240/1/50            | 220-240/1/50            | 380-415/3/50            | 380-415/3/50            | 380-415/3/50            |
| Max running current                                   | A              |      | 28.2                    | 28.2                    | 28.2                    | 9.5                     | 9.5                     | 9.5                     |
| Recommended circuit breaker                           | A              |      | 40.0                    | 40.0                    | 40.0                    | 16.0                    | 16.0                    | 16.0                    |
| Sound power level                                     | dB             |      | 42                      | 42                      | 42                      | 42                      | 42                      | 42                      |
| Net Dimension                                         | HxWxD          | mm   | 850 × 480 × 310         | 850 × 480 × 310         | 850 × 480 × 310         | 850 × 480 × 310         | 850 × 480 × 310         | 850 × 480 × 310         |
| Packaging dimension                                   | HxWxD          | mm   | 1020 × 580 × 460        | 1020 × 580 × 460        | 1020 × 580 × 460        | 1020 × 580 × 460        | 1020 × 580 × 460        | 1020 × 580 × 460        |
| Net / Gross weight                                    | HU1*2WAHYA**   | kg   | 37 / 50.5               | 37 / 50.5               | 37 / 50.5               | 37.5 / 51               | 37.5 / 51               | 37.5 / 51               |
|                                                       | HU1*2WAHYB**   | kg   | 34/47.5                 | 34/47.5                 | 34/47.5                 | 34.5/48                 | 34.5/48                 | 34.5/48                 |
| Outdoor Unit                                          |                |      | AW122HVGHA              | AW142HVGHA              | AW162HVGHA              | AW12NHVGHA              | AW14NHVGHA              | AW16NHVGHA              |
| Outdoor operating<br>temperature range                | Heating        | °C   | -25 ~35                 | -25 ~35                 | -25 ~35                 | -25 ~35                 | -25 ~35                 | -25 ~35                 |
|                                                       | Cooling        | °C   | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 |
|                                                       | DHW            | °C   | -25 ~43                 | -25 ~43                 | -25 ~43                 | -25 ~43                 | -25 ~43                 | -25 ~43                 |
| Water piping connection                               | Inlet/Outlet   | inch | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 |
| Compressor                                            | Quantity       | -    | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       |
|                                                       | Type           | -    | DC inverter twin rotary |                         |                         |                         |                         |                         |
| Refrigerant                                           | Type           | -    | R290                    |                         |                         |                         |                         |                         |
|                                                       | Charge/CO2 Eq. | kg/T | 1.05/3.15               | 1.05/3.15               | 1.25/3.75               | 1.05/3.15               | 1.05/3.15               | 1.25/3.75               |
| Sound pressure level *(1)                             | dB(A)          |      | 52                      | 53                      | 55                      | 52                      | 53                      | 55                      |
| Sound power level *(1)                                | dB             |      | 63                      | 64                      | 66                      | 63                      | 64                      | 66                      |
| Net Dimension                                         | HxWxD          | mm   | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        |
| Packaging dimension                                   | HxWxD          | mm   | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       |
| Net / Gross weight                                    | kg             |      | 114/140                 | 114/140                 | 123/149                 | 129/155                 | 129/155                 | 138/164                 |
| Power supply                                          | V/ph/Hz        |      | 220-240/1/50            | 220-240/1/50            | 220-240/1/50            | 380-415/3/50            | 380-415/3/50            | 380-415/3/50            |
| Max running current                                   | A              |      | 30.6                    | 30.6                    | 34.8                    | 10.2                    | 10.2                    | 11.6                    |
| Recommended circuit breaker                           | A              |      | 32.0                    | 32.0                    | 40.0                    | 16.0                    | 16.0                    | 16.0                    |

\*(1) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

\* HU1\*2WAHYA\*\* stands for the unit without 3-way valve, with expansion tank

\* HU1\*2WAHYB\*\* stands for the unit with 3-way valve, without expansion tank





# HYDRO OUTDOOR: Build it yourself



AW042HUGHA  
AW062HUGHA  
AW082HUGHA  
AW102HUGHA  
  
AW10NHUGHA



ATW-E02N  
(standard)

If you want to build your own system, or want to build a pre-plumbed cylinder we offer a build it yourself system. This uses the hydro outdoor unit.

You then need the build it yourself kit **ATW-E02N** which comprises the flow switch and the wiring centre **ATW-A03N**

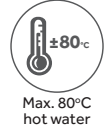
The installer needs to supply a water pump and expansion vessel for the system.

| Product Data                                          |                |       | Hydro Split<br>4kW-1Ph  | Hydro Split<br>6kW-1Ph | Hydro Split<br>8kW-1Ph | Hydro Split<br>10kW-1Ph | Hydro Split<br>10kW-3Ph |
|-------------------------------------------------------|----------------|-------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity       | kW    | 4.00                    | 6.00                   | 8.00                   | 10.00                   | 10.00                   |
|                                                       | Power input    | kW    | 0.73                    | 1.12                   | 1.50                   | 1.96                    | 1.96                    |
|                                                       | COP            | W/W   | 5.50                    | 5.35                   | 5.35                   | 5.10                    | 5.10                    |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity       | kW    | 4.00                    | 6.00                   | 8.00                   | 10.00                   | 10.00                   |
|                                                       | Power input    | kW    | 1.19                    | 1.82                   | 2.35                   | 3.13                    | 3.13                    |
|                                                       | COP            | W/W   | 3.35                    | 3.30                   | 3.40                   | 3.20                    | 3.20                    |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP           | -     | 5.10                    | 5.10                   | 5.20                   | 5.10                    | 5.10                    |
|                                                       | ns             | %     | 201                     | 201                    | 205                    | 201                     | 201                     |
|                                                       | Energy class   | -     | A+++                    | A+++                   | A+++                   | A+++                    | A+++                    |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP           | -     | 3.85                    | 3.83                   | 3.85                   | 3.83                    | 3.83                    |
|                                                       | ns             | %     | 151                     | 150                    | 151                    | 150                     | 150                     |
|                                                       | Energy class   | -     | A+++                    | A+++                   | A+++                   | A+++                    | A+++                    |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity       | kW    | 4.00                    | 6.00                   | 7.50                   | 9.50                    | 9.50                    |
|                                                       | Power input    | kW    | 0.79                    | 1.20                   | 1.58                   | 2.21                    | 2.21                    |
|                                                       | EER            | -     | 5.05                    | 5.00                   | 4.75                   | 4.30                    | 4.30                    |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity       | kW    | 3.50                    | 5.00                   | 6.80                   | 8.50                    | 8.50                    |
|                                                       | Power input    | kW    | 0.95                    | 1.37                   | 1.97                   | 2.62                    | 2.62                    |
|                                                       | EER            | -     | 3.70                    | 3.65                   | 3.45                   | 3.25                    | 3.25                    |
| Outdoor Unit                                          |                |       | AW042HUGHA              | AW062HUGHA             | AW082HUGHA             | AW102HUGHA              | AW10NHUGHA              |
| Outdoor operating<br>temperature range                | Heating        | °C    | -25 ~ 35                | -25 ~ 35               | -25 ~ 35               | -25 ~ 35                | -25 ~ 35                |
|                                                       | Cooling        | °C    | 10 ~ 48                 | 10 ~ 48                | 10 ~ 48                | 10 ~ 48                 | 10 ~ 48                 |
|                                                       | DHW            | °C    | -25 ~ 43                | -25 ~ 43               | -25 ~ 43               | -25 ~ 43                | -25 ~ 43                |
| Water piping connection                               | Inlet/Outlet   | inch  | R 1/R 1                 | R 1/R 1                | R 1/R 1                | R 1/R 1                 | R 1/R 1                 |
| Compressor                                            | Quantity       | -     | 1                       | 1                      | 1                      | 1                       | 1                       |
|                                                       | Type           | -     | DC inverter twin rotary |                        |                        |                         |                         |
| Refrigerant                                           | Type           | -     | R290                    |                        |                        |                         |                         |
|                                                       | Charge/CO2 Eq. | kg/T  | 0.8/2.4                 | 0.8/2.4                | 0.9/2.7                | 0.9/2.7                 | 0.9/2.7                 |
| Sound pressure level *(1)                             |                | dB(A) | 44                      | 47                     | 48                     | 49                      | 49                      |
| Sound power level *(1)                                |                | dB    | 55                      | 58                     | 59                     | 60                      | 60                      |
| Net Dimension                                         | (HxWxD)        | mm    | 790 × 1250 × 380        | 790 × 1250 × 380       | 790 × 1250 × 380       | 790 × 1250 × 380        | 790 × 1250 × 380        |
| Packaging dimension                                   | (HxWxD)        | mm    | 1022 × 1395 × 550       | 1022 × 1395 × 550      | 1022 × 1395 × 550      | 1022 × 1395 × 550       | 1022 × 1395 × 550       |
| Net / Gross weight                                    |                | kg    | 86/109                  | 86/109                 | 98/121                 | 98/121                  | 113/136                 |
| Power supply                                          | V/ph/Hz        |       | 220-240/1/50            | 220-240/1/50           | 220-240/1/50           | 220-240/1/50            | 380-415/3/50            |
| Max running current                                   | A              |       | 13.5                    | 13.5                   | 18.6                   | 18.6                    | 6.2                     |
| Recommended circuit breaker                           | A              |       | 16.0                    | 16.0                   | 20.0                   | 20.0                    | 16.0                    |

\*(1) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

\* HU1\*2WAHYA\*\* stands for the unit without 3-way valve, with expansion tank

\* HU1\*2WAHYB\*\* stands for the unit with 3-way valve, without expansion tank



R290

## HYDRO OUTDOOR: Build it yourself



AW122HVGHA  
AW142HVGHA  
AW162HVGHA

AW12NHVGHA  
AW14NHVGHA  
AW16NHVGHA



ATW-E02N  
(standard)

If you want to build your own system, or want to build a pre-plumbed cylinder we offer a build it yourself system. This uses the hydro outdoor unit.

You then need the build it yourself kit **ATW-E02N** which comprises the flow switch and the wiring centre **ATW-A03N**

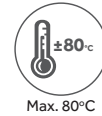
The installer needs to supply a water pump and expansion vessel for the system.

| Product Data                                          |                |       | Hydro Split<br>12kW-1Ph | Hydro Split<br>14kW-1Ph | Hydro Split<br>16kW-1Ph | Hydro Split<br>12kW-3Ph | Hydro Split<br>14kW-3Ph | Hydro Split<br>16kW-3Ph |
|-------------------------------------------------------|----------------|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity       | kW    | 12.00                   | 14.00                   | 16.00                   | 12.00                   | 14.00                   | 16.00                   |
|                                                       | Power input    | kW    | 2.35                    | 2.83                    | 3.23                    | 2.35                    | 2.83                    | 3.23                    |
|                                                       | COP            | W/W   | 5.10                    | 4.95                    | 4.95                    | 5.10                    | 4.95                    | 4.95                    |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity       | kW    | 11.50                   | 13.50                   | 15.50                   | 11.50                   | 13.50                   | 15.50                   |
|                                                       | Power input    | kW    | 3.48                    | 4.22                    | 5.08                    | 3.48                    | 4.22                    | 5.08                    |
|                                                       | COP            | W/W   | 3.30                    | 3.20                    | 3.05                    | 3.30                    | 3.20                    | 3.05                    |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP           | -     | 4.82                    | 4.80                    | 4.80                    | 4.82                    | 4.80                    | 4.80                    |
|                                                       | ns             | %     | 190                     | 189                     | 189                     | 190                     | 189                     | 189                     |
|                                                       | Energy class   | -     | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP           | -     | 3.85                    | 3.83                    | 3.85                    | 3.85                    | 3.83                    | 3.85                    |
|                                                       | ns             | %     | 151                     | 150                     | 151                     | 151                     | 150                     | 151                     |
|                                                       | Energy class   | -     | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    | A+++                    |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity       | kW    | 11.50                   | 13.50                   | 15.50                   | 11.50                   | 13.50                   | 15.50                   |
|                                                       | Power input    | kW    | 2.56                    | 3.14                    | 3.88                    | 2.56                    | 3.14                    | 3.88                    |
|                                                       | EER            | -     | 4.50                    | 4.30                    | 4.00                    | 4.50                    | 4.30                    | 4.00                    |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity       | kW    | 10.00                   | 12.00                   | 14.00                   | 10.00                   | 12.00                   | 14.00                   |
|                                                       | Power input    | kW    | 2.99                    | 3.75                    | 4.52                    | 2.99                    | 3.75                    | 4.52                    |
|                                                       | EER            | -     | 3.35                    | 3.20                    | 3.10                    | 3.35                    | 3.20                    | 3.10                    |
| Outdoor Unit                                          |                |       | AW122HVGHA              | AW142HVGHA              | AW162HVGHA              | AW12NHVGHA              | AW14NHVGHA              | AW16NHVGHA              |
| Outdoor operating<br>temperature range                | Heating        | °C    | -25 ~ 35                | -25 ~ 35                | -25 ~ 35                | -25 ~ 35                | -25 ~ 35                | -25 ~ 35                |
|                                                       | Cooling        | °C    | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 | 10 ~ 48                 |
|                                                       | DHW            | °C    | -25 ~ 43                | -25 ~ 43                | -25 ~ 43                | -25 ~ 43                | -25 ~ 43                | -25 ~ 43                |
| Water piping connection                               | Inlet/Outlet   | inch  | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 | R 1/R 1                 |
|                                                       | Quantity       | -     | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       |
| Compressor                                            | Type           | -     | DC inverter twin rotary |                         |                         |                         |                         |                         |
|                                                       | Refrigerant    | -     | R290                    |                         |                         |                         |                         |                         |
| Refrigerant                                           | Type           | -     | R290                    |                         |                         |                         |                         |                         |
|                                                       | Charge/CO2 Eq. | kg/T  | 1.05/3.15               | 1.05/3.15               | 1.25/3.75               | 1.05/3.15               | 1.05/3.15               | 1.25/3.75               |
| Sound pressure level *(1)                             |                | dB(A) | 52                      | 53                      | 55                      | 52                      | 53                      | 55                      |
|                                                       |                | dB    | 63                      | 64                      | 66                      | 63                      | 64                      | 66                      |
| Net Dimension                                         | HxWxD          | mm    | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        | 880 × 1250 × 460        |
| Packaging dimension                                   | HxWxD          | mm    | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       | 1112 × 1396 × 630       |
| Net / Gross weight                                    |                | kg    | 114/140                 | 114/140                 | 123/149                 | 129/155                 | 129/155                 | 138/164                 |
| Power supply                                          | V/ph/Hz        |       | 220-240/1/50            | 220-240/1/50            | 220-240/1/50            | 380-415/3/50            | 380-415/3/50            | 380-415/3/50            |
| Max running current                                   | A              |       | 30.6                    | 30.6                    | 34.8                    | 10.2                    | 10.2                    | 11.6                    |
| Recommended circuit breaker                           | A              |       | 32.0                    | 32.0                    | 40.0                    | 16.0                    | 16.0                    | 16.0                    |

\*(1) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

\* HU1\*2WAHYA\*\* stands for the unit without 3-way valve, with expansion tank

\* HU1\*2WAHYB\*\* stands for the unit with 3-way valve, without expansion tank



# HYDRO OUTDOOR

### HYDRO ALL-IN-ONE

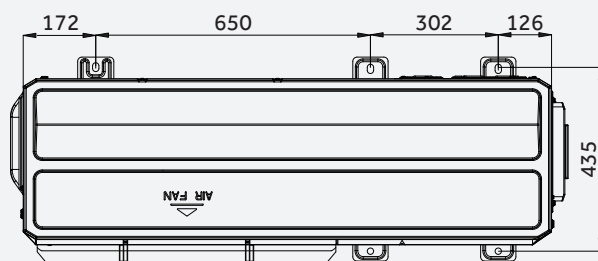
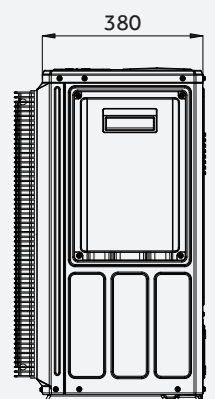
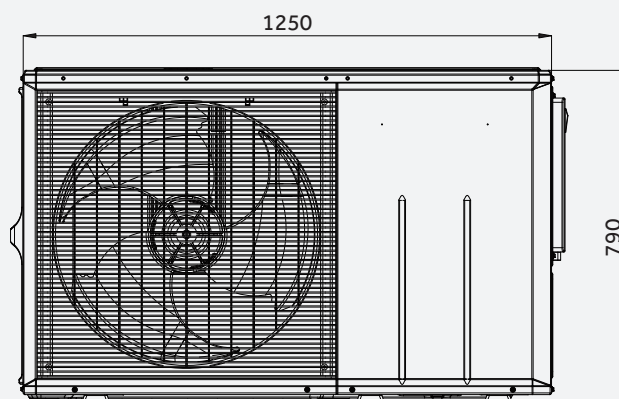
AW042HUGHA

AW062HUGHA

AW082HUGHA

AW102HUGHA

AW10NHUGHA



### HYDRO ALL-IN-ONE

AW122HVGHA

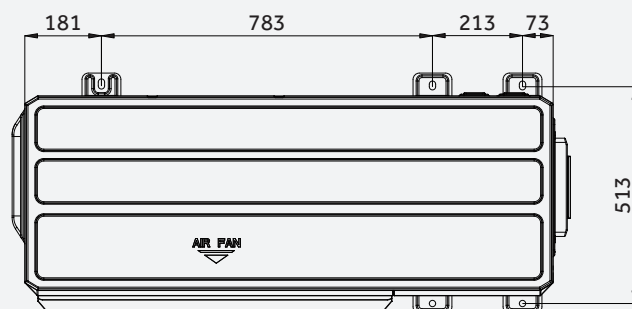
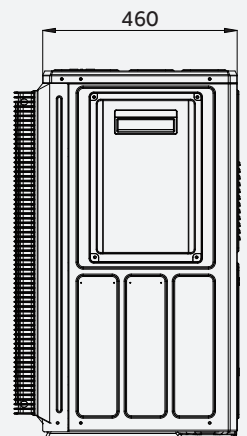
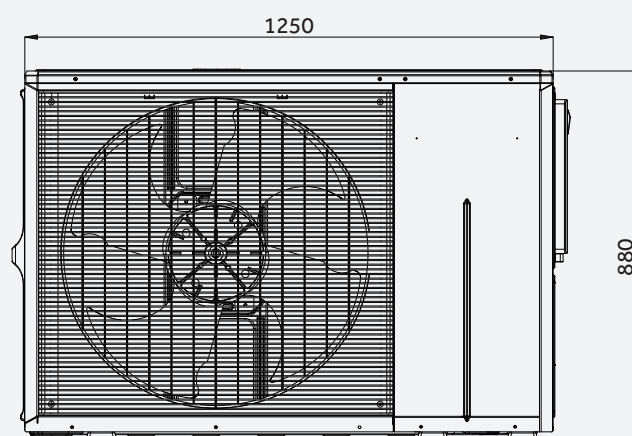
AW142HVGHA

AW162HVGHA

AW12NHVGHA

AW14NHVGHA

AW16NHVGHA



R290

# ALL IN ONE & HYDRO MODULE

## HYDRO ALL-IN-ONE

HU102F20AHYA  
HU162F20AHYA

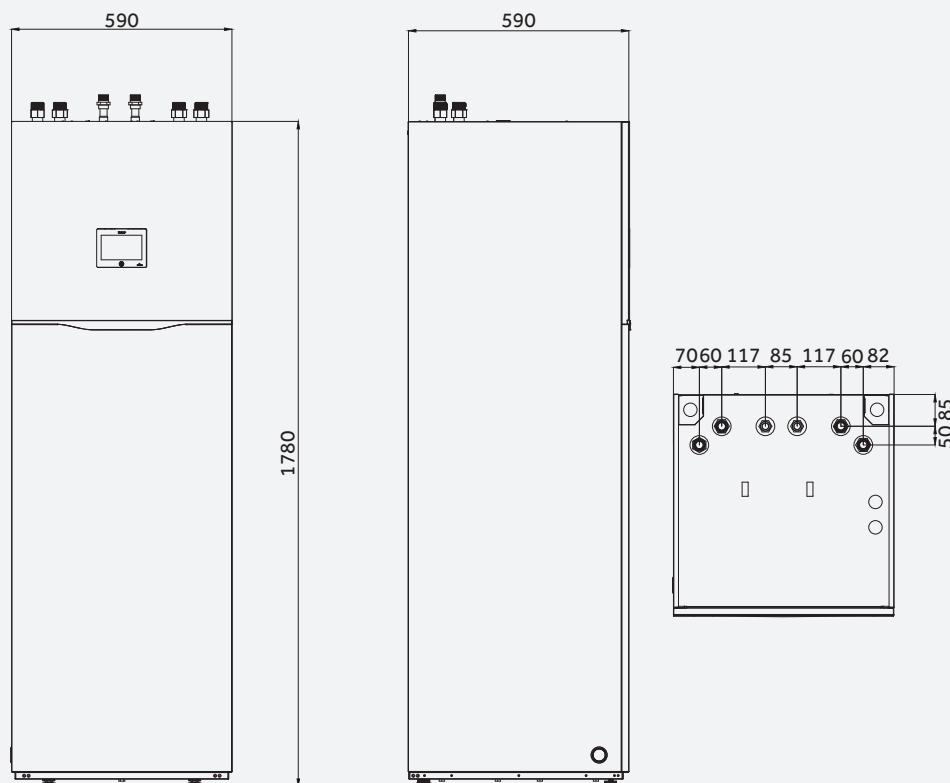
HU102F20AHYAE3  
HU162F20AHYAE3

### Only the height changes:

160Litre = 1580mm

200 Litre = 1780mm

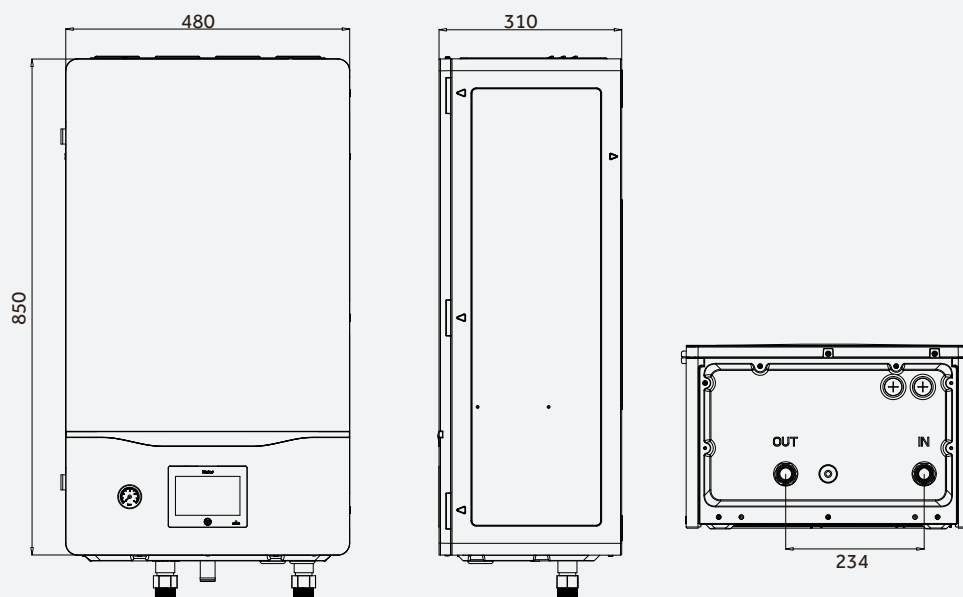
240 Litre = 1985mm



## HYDRO SPLIT

HU102WAHYA  
HU162WAHYA

HU10NWAHYAE3  
HU16NWAHYAE3





NEW



# WHY CHOOSE THE SUPER AQUA COMMERCIAL SERIES?

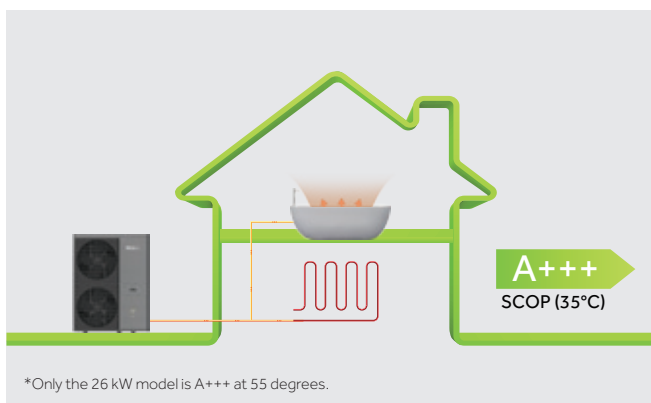
## R290 Refrigerant

R290 has zero ODP and a GWP of 3 making it the perfect choice for environmentally friendly heating systems.



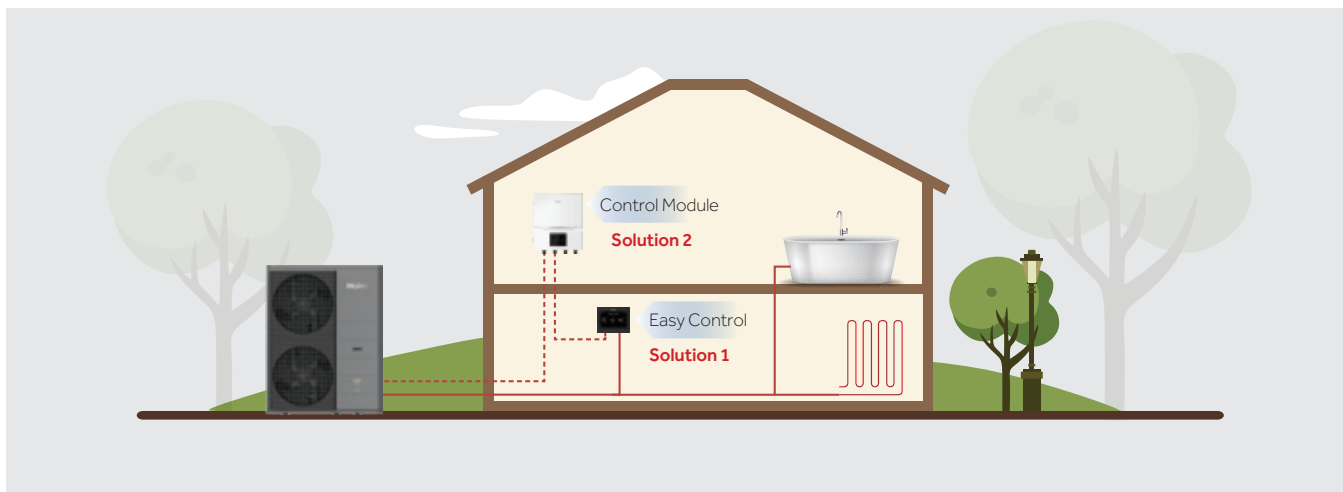
## Energy Efficiency Level A+++ / A+++ (35°C/55°C)

These are efficiency levels that cannot be met using R32 but still operate at high efficiency levels, even at low temperatures\*.



## Control Flexibility

Users can choose two solutions according to their needs: easy control only satisfies basic functions of heating/cooling/DHW. If you want other functions, you can choose the control module type.



## Simplified Control

The new 26-40kW Haier commercial heat pumps can be used with the standard ATW-A03N wiring centre mounted in the building and connected with a 2-core cable to the outdoor unit.

This gives simple indoor wiring combined with more functionality, it should be used for more complex systems, for example: Hybrid, Bi-Valent, Cascade, 2 zone, cooling and heating in the same system, Backup heaters etc.

However: Inside the heat pump itself we have a brand new feature, we have included a mini wiring centre with limited functionality allowing simple systems to be connected without needing an internal wiring centre at all.

So now you have the option of indoor or outdoor wiring.

### ATW-E03N which will have:

3 x 10m long temperature sensors (all interchangeable), DHW, Temp Zone 1 and Buffer sensor

The heat pump controller HW-WA101DBT

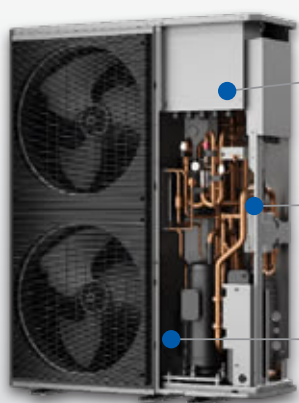
The Wi-Fi and a 10m extension cable

## Water Pump Included

Unit is fit with 16 meter head PWM water pump installed inside the unit



## Safety Features



### Safety Control Design Fully sealed control cabinet

Explosion-proof electric control design, more safety for R290 product

### Safety Components Design Refrigerant separator

To prevent the refrigerant from entering the water system and indoor space

### Safety System Design Refrigerant leakage sensor

When refrigerant leakage is detected, the unit issues an alarm

As a safety feature in response to the flammable properties of R290 refrigerant the system has been designed to include a fully enclosed electrical control box a refrigerant separator and refrigerant detector. In the event of refrigerant leakage the unit can quickly discharge the refrigerant and stop it entering the water.

# COMMERCIAL UNIT R290



AW26NMYGHA  
AW30NMYGHA  
AW35NMYGHA  
AW40NMYGHA



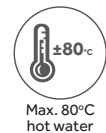
ATW-E03 KIT  
(Comes with WiFi  
module & Controller  
HW-WA101DBT  
Must be ordered  
seperately)



ATW-A03N  
(Must be ordered  
seperately)

| Model                                                 |                  |        | AW26NMYGHA                                | AW30NMYGHA      | AW35NMYGHA      | AW40NMYGHA      |
|-------------------------------------------------------|------------------|--------|-------------------------------------------|-----------------|-----------------|-----------------|
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity         | kW     | 26.00                                     | 30.00           | 35.00           | 40.00           |
|                                                       | Power input      | kW     | 5.42                                      | 6.59            | 8.24            | 10.00           |
|                                                       | COP              | -      | 4.80                                      | 4.55            | 4.25            | 4.00            |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity         | kW     | 26.00                                     | 30.00           | 35.00           | 40.00           |
|                                                       | Power input      | kW     | 7.76                                      | 9.38            | 11.67           | 14.29           |
|                                                       | COP              | -      | 3.35                                      | 3.20            | 3.00            | 2.80            |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP             | -      | 4.91                                      | 4.73            | 4.55            | 4.46            |
|                                                       | ns               | %      | 193                                       | 186             | 179             | 175             |
|                                                       | Energy class     | -      | A+++                                      | A+++            | A+++            | A+++            |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP             | -      | 3.83                                      | 3.68            | 3.57            | 3.56            |
|                                                       | ns               | %      | 150                                       | 144             | 140             | 139             |
|                                                       | Energy class     | -      | A+++                                      | A++             | A++             | A++             |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity         | kW     | 26.00                                     | 30.00           | 35.00           | 39.00           |
|                                                       | Power input      | kW     | 5.42                                      | 6.38            | 8.14            | 9.75            |
|                                                       | EER              | -      | 4.80                                      | 4.70            | 4.30            | 4.00            |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity         | kW     | 26.00                                     | 30.00           | 32.00           | 35.00           |
|                                                       | Power input      | kW     | 8.39                                      | 10.53           | 11.85           | 14.00           |
|                                                       | EER              | -      | 3.10                                      | 2.85            | 2.70            | 2.50            |
| Outdoor operating<br>temperature range                | Heating          | °C     | -28 ~35                                   | -28 ~35         | -28 ~35         | -28 ~35         |
|                                                       | Cooling          | °C     | 10 ~ 46                                   | 10 ~ 46         | 10 ~ 46         | 10 ~ 46         |
|                                                       | DHW              | °C     | -28 ~43                                   | -28 ~43         | -28 ~43         | -28 ~43         |
| Leaving water<br>temperature range                    | Heating          | °C     | 20~80                                     | 20~80           | 20~80           | 20~80           |
|                                                       | Cooling          | °C     | 5~25                                      | 5~25            | 5~25            | 5~25            |
| Storage temperature<br>range(tank)                    | DHW              | °C     | 20~75                                     | 20~75           | 20~75           | 20~75           |
| Nominal water flow rate                               |                  | L/min  | 75.0                                      | 86.0            | 100.0           | 115.0           |
| Minimal water flow rate                               |                  | L/min  | 40.0                                      | 42.0            | 44.0            | 46.0            |
| Water piping connection                               | Inlet/Outlet     | inch   | G 1-1/4/G 1-1/4                           | G 1-1/4/G 1-1/4 | G 1-1/4/G 1-1/4 | G 1-1/4/G 1-1/4 |
| Compressor                                            | Quantity         | -      | 1                                         | 1               | 1               | 1               |
|                                                       | Type             | -      | DC Inverter Scroll Compressor             |                 |                 |                 |
| Refrigerant                                           | Type             | -      | R290                                      |                 |                 |                 |
|                                                       | Charge/CO2 Eq.   | kg/t   | 3.1/9.3                                   | 3.1/9.3         | 3.1/9.3         | 3.1/9.3         |
| Net dimension                                         | (HxWxD)          | mm     | 1790x1380x460                             | 1790x1380x460   | 1790x1380x460   | 1790x1380x460   |
| Packing dimension                                     | (HxWxD)          | mm     | 2025x1454x620                             | 2025x1454x620   | 2025x1454x620   | 2025x1454x620   |
| Net/Gross weight                                      |                  | kg     | 282/317                                   | 282/317         | 282/317         | 282/317         |
| Sound Pressure level*(1)                              |                  | dB(A)  | 47                                        | 50              | 50              | 51              |
| Sound power level*(1)                                 |                  | dB     | 62                                        | 63              | 64              | 65              |
| Power supply                                          |                  | V/-/Hz | 380~415/3/50                              | 380~415/3/50    | 380~415/3/50    | 380~415/3/50    |
| Max. running current                                  |                  | A      | 15.7                                      | 20.1            | 25.2            | 30.4            |
| Recommended<br>circuit breaker                        |                  | A      | 32.0                                      | 32.0            | 40.0            | 40.0            |
| Accessory                                             | Wired controller | -      | HW-WA101DBT(Optional)                     |                 |                 |                 |
|                                                       | PCB Box          | -      | ATW-A03 (Optional) or ATW-E03N (Optional) |                 |                 |                 |
|                                                       | Filter           | -      | Y-type (Standard)                         |                 |                 |                 |
| Indoor Unit                                           |                  |        | ATW-A03N                                  |                 |                 |                 |
| Power Supply                                          |                  |        | 20 AMP                                    |                 |                 |                 |
| Net Dimension                                         | (HxWxD)          | mm     | 460 × 400 × 110                           |                 |                 |                 |
| Packaging dimension                                   | (HxWxD)          | mm     | 590 × 500 × 235                           |                 |                 |                 |
| Net / Gross weight                                    |                  | kg     | 11.2 kg                                   |                 |                 |                 |
|                                                       |                  | kg     | 8.1 kg                                    |                 |                 |                 |

\*(1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017(A7/W35).  
(A+++A+++ ) only available on the AW26NMYGHA



NEW

# COMMERCIAL UNIT R290

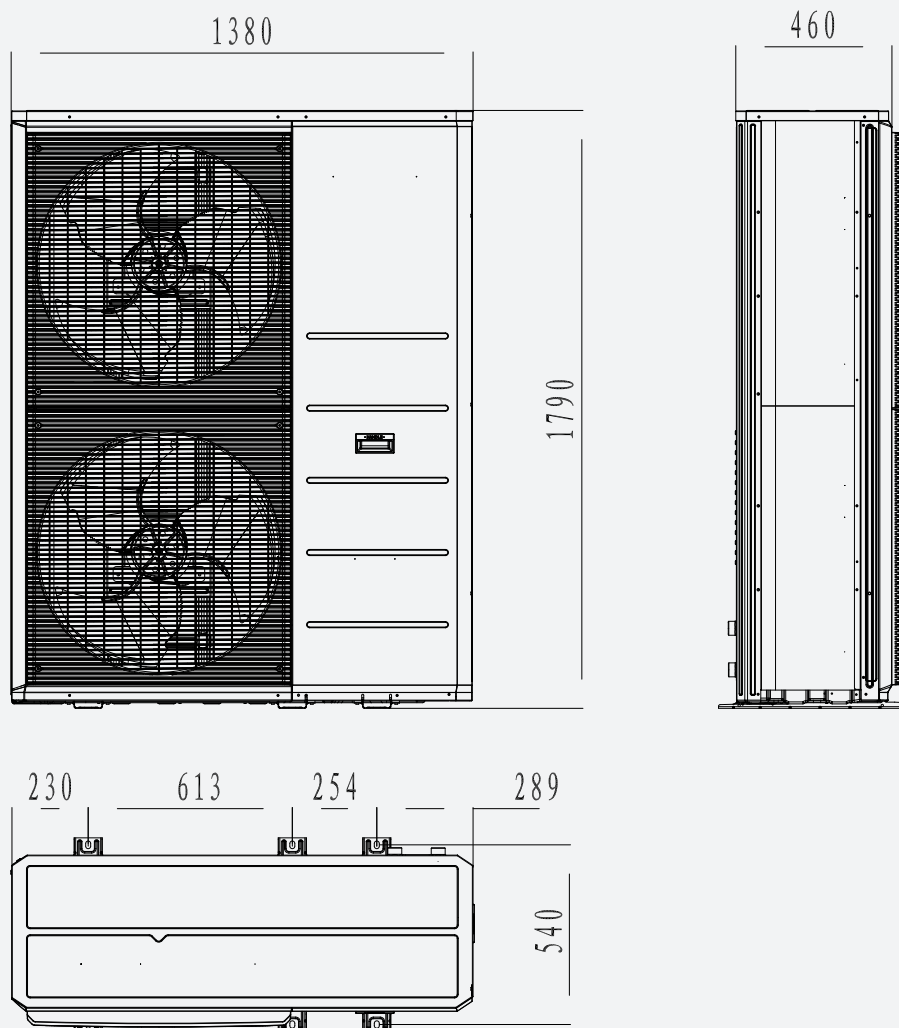
**COMMERCIAL**

AW26NMYGHA

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AW40NMYGHA





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