

Air To Water Heatpump

Brochure 2026



CONNECTED ECOSYSTEM



A2W HEAT PUMP



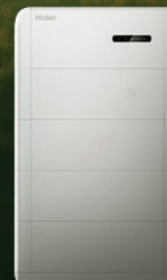
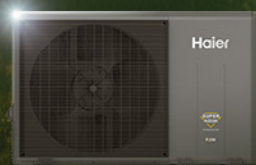
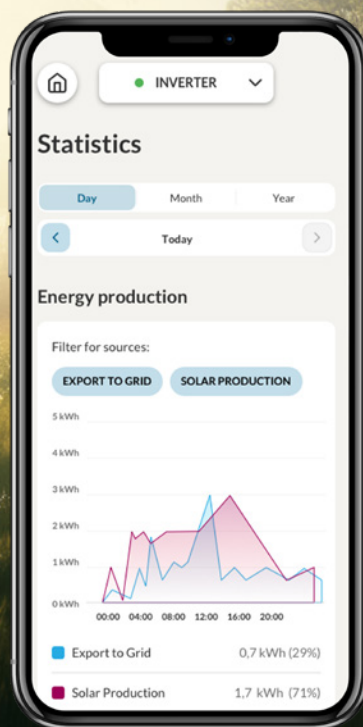
ENERGY STORAGE



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 CO₂ 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.

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.



Monobloc
4kW-16kW



Hydro Outdoor & All in One
4kW-16kW



Hydro Outdoor & Module
4kW-16kW

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

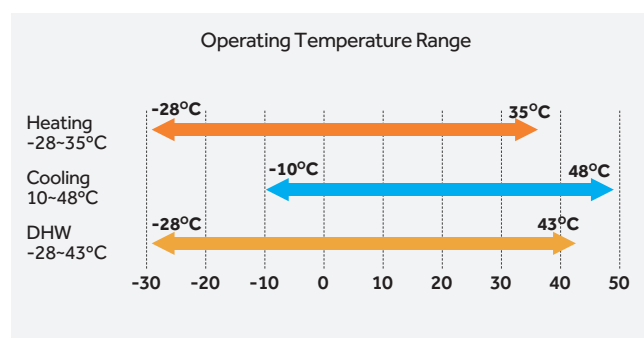


High
Reliability

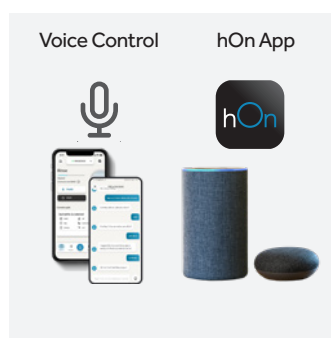


Super
Convenience

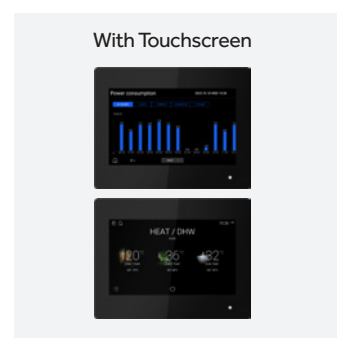
WIDE TEMPERATURE RANGE



SMART OPERATION



ENERGY MONITORING





WHAT IS AN AIR TO WATER HEAT PUMP?

An air source heat pump also known as an Air-To-Water Heat Pump transfers heat from the outside air to water. This in turn heats the space via radiators or underfloor heating. It can also heat water stored in a hot water cylinder for hot water taps, baths and showers.

The Haier Air to Water Heat Pump range uses free renewable energy from the outside air as a heat source for space heating and domestic hot water. This energy efficient and environmentally friendly solution can substantially reduce energy consumption, running cost and CO₂ emissions in heating compared to conventional oil and gas boilers.

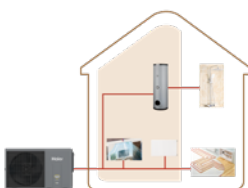
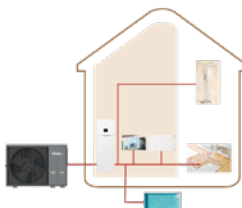
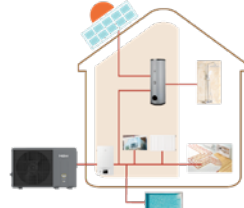
The system draws energy from the outside air to create a high efficiency solution for your needs, with efficiencies of over 3:1.

How does an air source heat pump work?

A heat pump uses a process similar to your refrigerator, it takes heat from one place to another. We use this process to harvest heat from the air outside and use this heat to warm water used to heat your house.

A2W MODEL LINEUP

TYPE	R290						
UNITS	 MONOBLOC		 HYDRO OUTDOOR & ALL IN ONE		 HYDRO OUTDOOR & MODEL		 COMMERCIAL
PHASES	Phase 1	Phase 3	Phase 1	Phase 3	Phase 1	Phase 3	Phase 3
3 kW	ODU AW032HUGHA IDU ATW-E02N		ODU AW032HUGHA IDU HU102F16AHYA HU102F20AHYA		ODU AW032HSGHA IDU HU102WAHYA		
4 kW	ODU AW042MUGHA IDU ATW-A02N		ODU AW042HUGHA IDU HU102F16AHYA HU102F20AHYA		ODU AW042HUGHA IDU HU102WAHYA		
5 kW	ODU AW052HUGHA IDU ATW-E03N		ODU AW052HSGHA IDU HU102F16AHYA HU102F20AHYA		ODU AW052HSGHA IDU HU102WAHYA		
6kW	ODU AW062MUGHA IDU ATW-A03N		ODU AW062HUGHA IDU HU102F16AHYA HU102F20AHYA		ODU AW062HUGHA IDU HU102WAHYA		
7/8kW	ODU AW082MUGHA IDU ATW-A03N		ODU AW082HUGHA IDU HU102F16AHYA HU102F20AHYA		ODU AW082HUGHA IDU HU102WAHYA		
9/10kW	ODU AW102MUGHA IDU ATW-A03N	ODU AW10NMUGHA IDU ATW-A03N	ODU AW102HUGHA IDU HU102F16AHYA HU102F20AHYA HU102F24AHYA	ODU AW10NHUGHA IDU HU102F20AHYAE3 HU102F24AHYA	ODU AW102HUGHA IDU HU102WAHYA	ODU AW10NHUGHA IDU HU10NWAHYAE3	
11/12kW	ODU AW122MXGHA IDU ATW-A03N	ODU AW12NMUGHA IDU ATW-A03N	ODU AW122HVGHA IDU HU162F20AHYA HU162F24AHYA	ODU AW12NHVGHA IDU HU162F20AHYAE3 HU162F24AHYA	ODU AW122HVGHA IDU HU162WAHYA	ODU AW12NHVGHA IDU HU16NWAHYAE3	
14kW	ODU AW142MXGHA IDU ATW-A03N	ODU AW14NMUGHA IDU ATW-A03N	ODU AW142HVGHA IDU HU162F20AHYA HU162F24AHYA	ODU AW14NHVGHA IDU HU162F20AHYAE3 HU162F24AHYA	ODU AW142HVGHA IDU HU162WAHYA	ODU AW14NHVGHA IDU HU16NWAHYAE3	
15/16kW	ODU AW162MXGHA IDU ATW-A03N	ODU AW16NMUGHA IDU ATW-A03N	ODU AW162HVGHA IDU HU162F20AHYA HU162F24AHYA	ODU AW16NHVGHA IDU HU162F20AHYAE3 HU162F24AHYA	ODU AW162HVGHA IDU HU162WAHYA	ODU AW16NHVGHA IDU HU16NWAHYAE3	
26/40kW							ODU AW26NMYGHA AW30NMYGHA AW35NMYGHA AW40NMYGHA IDU ATW-E03 OR ATW-A03N

SERIES	MONOBLOC	HYDRO OUTDOOR & ALL IN ONE	HYDRO OUTDOOR & MODULE
Type	R290 A2W Series 	R290 A2W Series 	R290 A2W Series 
Advantages	Water connection indoor to outdoor	Easier installation thanks to integrated water tank	Heat exchange is in the outdoor unit. 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	●	●	●

R290 A2W HEAT PUMP



NEW



WHY CHOOSE THE 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.

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 (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 (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 Average climate water outlet 35°C	SCOP	-	5.07	4.90
	ns	%	200	193
	Energy class	-	A+++	A+++
Space heating Average climate water outlet 55°C	SCOP	-	3.85	3.85
	ns	%	151	151
	Energy class	-	A+++	A+++
Cooling (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 (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 temperature range	Heating	°C	-25 ~ 35	-25 ~ 35
	Cooling	°C	10 ~ 48	10 ~ 48
	DHW	°C	-25 ~ 43	-25 ~ 43
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	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 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.

MINI R290

ATW-E02N



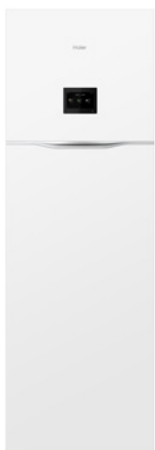
Indoor Unit			ATW-A03N
Power Supply			20 AMP
Net Dimension	(HxWxD)	mm	460 × 400 × 110
Packaging dimension	(HxWxD)	mm	590 × 500 × 235
Net / Gross weight		kg	11.2 kg
		kg	8.1 kg

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
Declared 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	-	2	2
	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

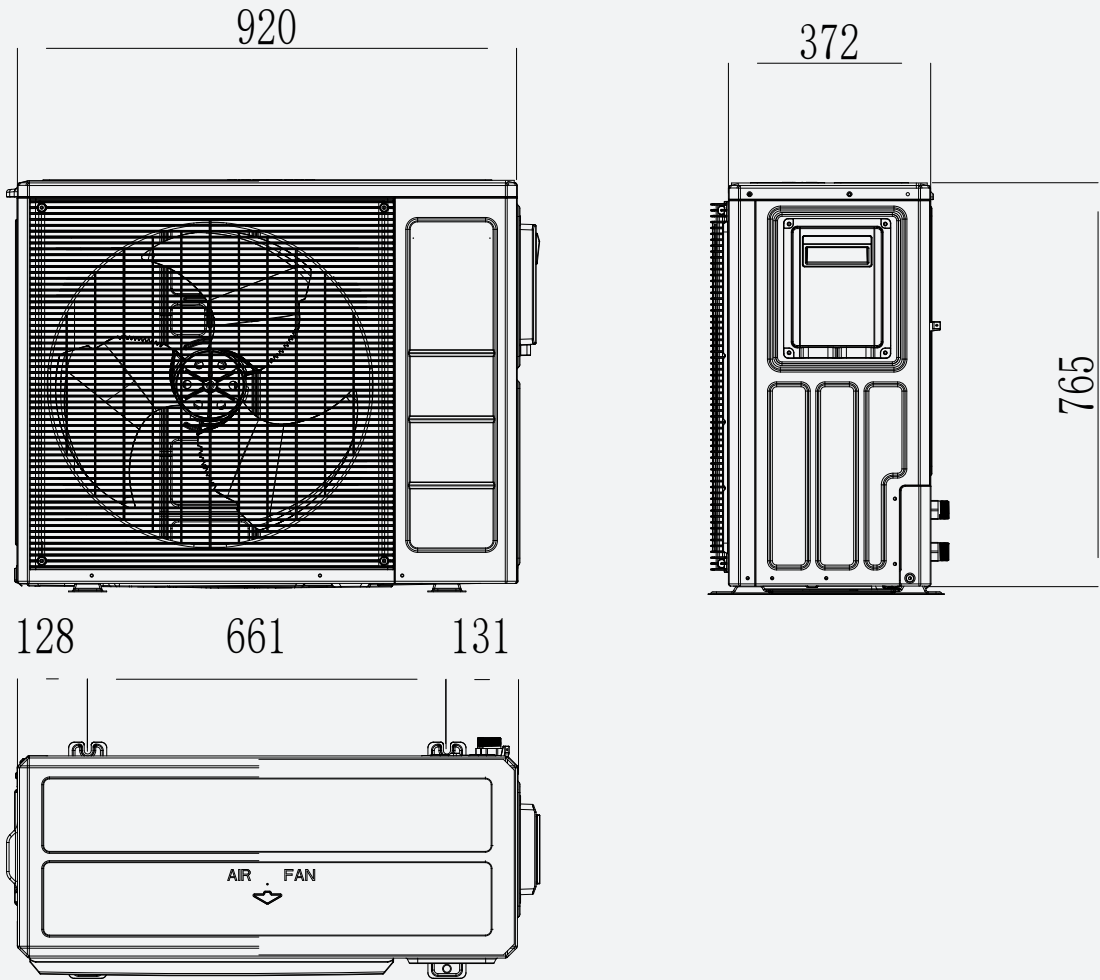
*(1)Max running current does not include backup electric heater, which is individually powered on.

*(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)

NEW
MINI R290

MINI
AW032HSGHA
AW052HSGHA



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.



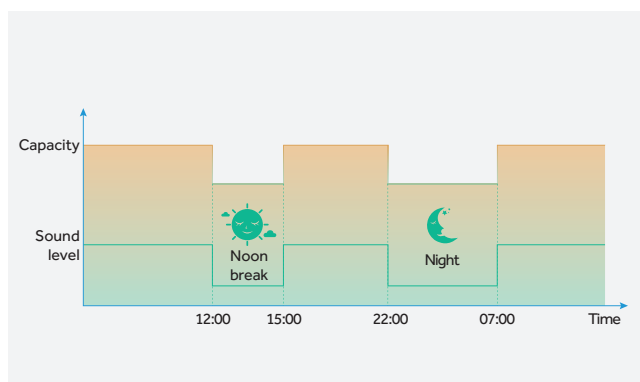
MAX.80°C HOT WATER

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

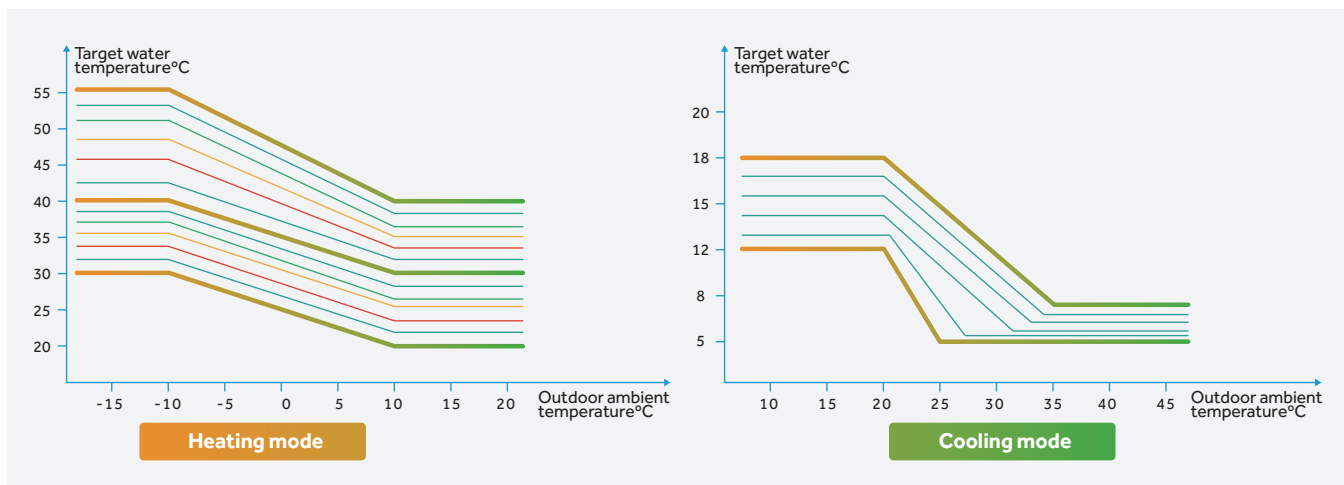
In Auto mode, the cooling and heating mode is automatically managed according to the outdoor ambient temperature. There is no need to manually set the heat pump operating mode, which is very convenient for the users.

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:

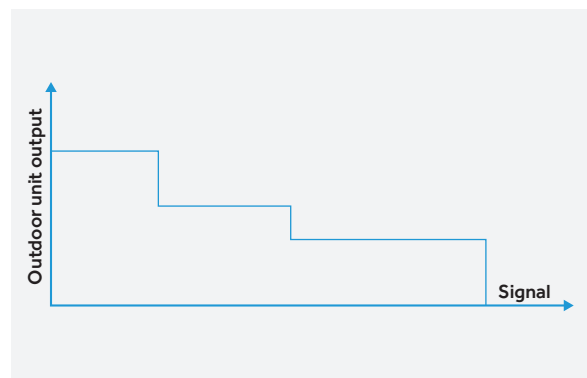
- 1 Using return water temperature in either a fixed or weather compensated setting when connected to a buffer.
- 2 Controlled to heat or cool up to 2 zones either at a fixed or weather compensated water temperature using third party room thermostats with a Volt free signal. Note this configuration is 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.



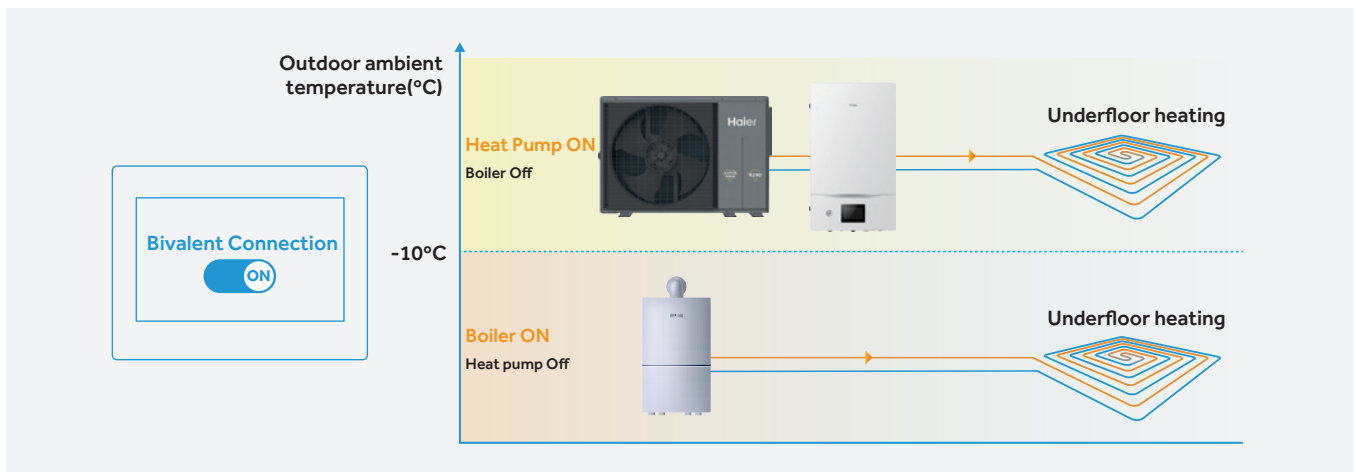
SMART VACATION

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.

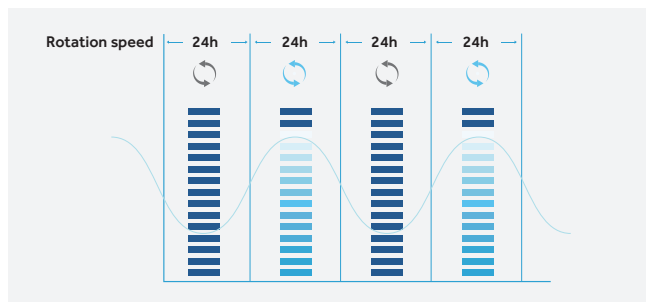


HIGH RELIABILITY



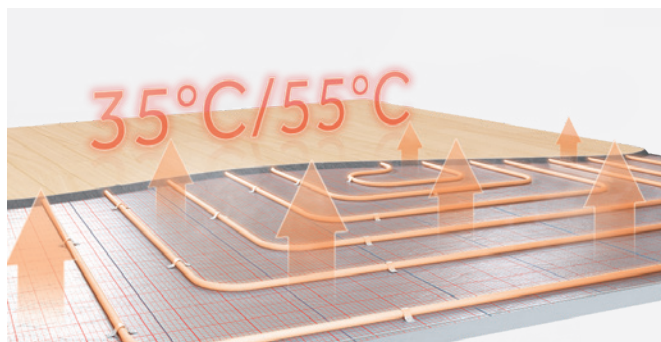
ANTI-RUST AND CORROSION

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



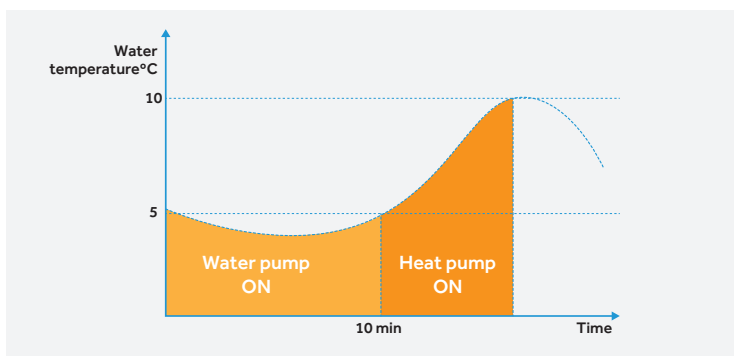
FLOOR DRYING

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



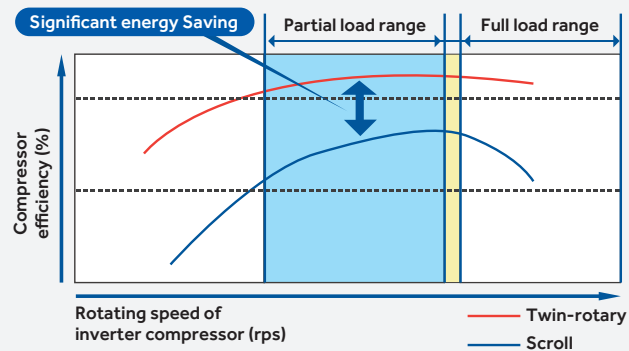
EFFICIENCY

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 deliver high efficiency and low noise coming from the compressor.



A+ HOT WATER ERP CLASS



R290

HYDRO OUTDOOR & ALL-IN-ONE



AW042HUGHA
AW062HUGHA
AW082HUGHA
AW102HUGHA
AW10NHUGHA



NEW

160 L

HU102F16AHYA
HU102F16AHYAE3

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 4kW-1Ph	Hydro All in one 6kW-1Ph	Hydro All in one 8kW-1Ph	Hydro All in one 10kW-1Ph	Hydro All in one 10kW-3Ph
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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 range (Tank)	DHW	°C	25-75	25-75	25-75	25-75	25-75
Water piping Connection	Inlet/Outlet (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 pressure limit	bar	7	7	7	7	7
	Tank heater	kW	3	3	3	3	3
Declared load profile	-		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	-	2	2	2	2	2
	Max Running current	A	14.0	14.0	14.0	14.0	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	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 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 & ALL-IN-ONE



AW042HUGHA
AW062HUGHA
AW082HUGHA
AW102HUGHA

AW10NHUGHA



200 L

HU102F20AHYA
HU162F20AHYA

HU102F20AHYAE3
HU162F20AHYAE3

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 4kW-1Ph	Hydro All in one 6kW-1Ph	Hydro All in one 8kW-1Ph	Hydro All in one 10kW-1Ph	Hydro All in one 10kW-3Ph
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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 range (Tank)	DHW	°C	25-75	25-75	25-75	25-75	25-75
Water piping Connection	Inlet/Outlet (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 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	-	2	2	2	2	2
	Max Running current	A	14.0	14.0	14.0	14.0	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	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 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.



R290

HYDRO OUTDOOR & ALL-IN-ONE



AW122HVGHA
AW142HVGHA
AW162HVGHA

AW12NHVGHA
AW14NHVGHA
AW16NHVGHA



200 L

HU102F20AHYA
HU162F20AHYA

HU102F20AHYAE3
HU162F20AHYAE3

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

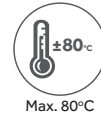
The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

Model			Hydro All in one 12kW-1Ph	Hydro All in one 14kW-1Ph	Hydro All in one 16kW-1Ph	Hydro All in one 12kW-3Ph	Hydro All in one 14kW-3Ph	Hydro All in one 16kW-3Ph
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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 range (Tank)	DHW	°C	25-75	25-75	25-75	25-75	25-75	25-75
Water piping Connection	Inlet/Outlet (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	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	220-240/1/50
Max running current*(1)	A	15.0	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	20.0
DHW Tank	Type	-	2205 duplex stainless steel					
	Tank Volume	L	200	200	200	200	200	200
	Maximum water 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	L
COP*(2)	-	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Water heating energy efficiency class	-	A+	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	-	2	2	2	2	2	2
	Max Running current	A	27.5	27.5	27.5	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	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	117 / 133
Outdoor Unit			AW122HVGHA	AW142HVGHA	AW162HVGHA	AW12NHVGHA	AW14NHVGHA	AW16NHVGHA
Outdoor operating 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 *(3)	dB(A)	52	53	55	52	53	55	55
Sound power level *(3)	dB	63	64	66	63	64	66	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	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	380-415/3/50
Max running current	A	30.6	30.6	34.8	10.2	10.2	11.6	11.6
Recommended circuit breaker	A	32.0	32.0	40.0	16.0	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 & 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 the outdoor unit with a 2 core cable

Product Data			Hydro Split 4kW-1Ph	Hydro Split 6kW-1Ph	Hydro Split 8kW-1Ph	Hydro Split 10kW-1Ph	Hydro Split 10kW-3Ph
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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 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	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	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	A	14.1	14.1	14.1	14.1	5.0
Recommended circuit breaker	A	A	20.0	20.0	20.0	20.0	10.0
Sound power level	dB	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 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	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	A	13.5	13.5	18.6	18.6	6.2
Recommended circuit breaker	A	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 & 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.

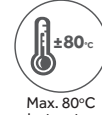
The Hydro Module units has a wiring centre mounted inside them to make wiring simpler. It connects to he outdoor unit with a 2 core cable

Product Data			Hydro Split 12kW-1Ph	Hydro Split 14kW-1Ph	Hydro Split 16kW-1Ph	Hydro Split 12kW-3Ph	Hydro Split 14kW-3Ph	Hydro Split 16kW-3Ph
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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 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 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



R290

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 he 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 4kW-1Ph	Hydro Split 6kW-1Ph	Hydro Split 8kW-1Ph	Hydro Split 10kW-1Ph	Hydro Split 10kW-3Ph
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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-E03
(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 12kW-1Ph	Hydro Split 14kW-1Ph	Hydro Split 16kW-1Ph	Hydro Split 12kW-3Ph	Hydro Split 14kW-3Ph	Hydro Split 16kW-3Ph
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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
Sound power level *(1)		dB	63	64	66	63	64	66
Net Dimension		HxWxD	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460
Packaging dimension		HxWxD	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

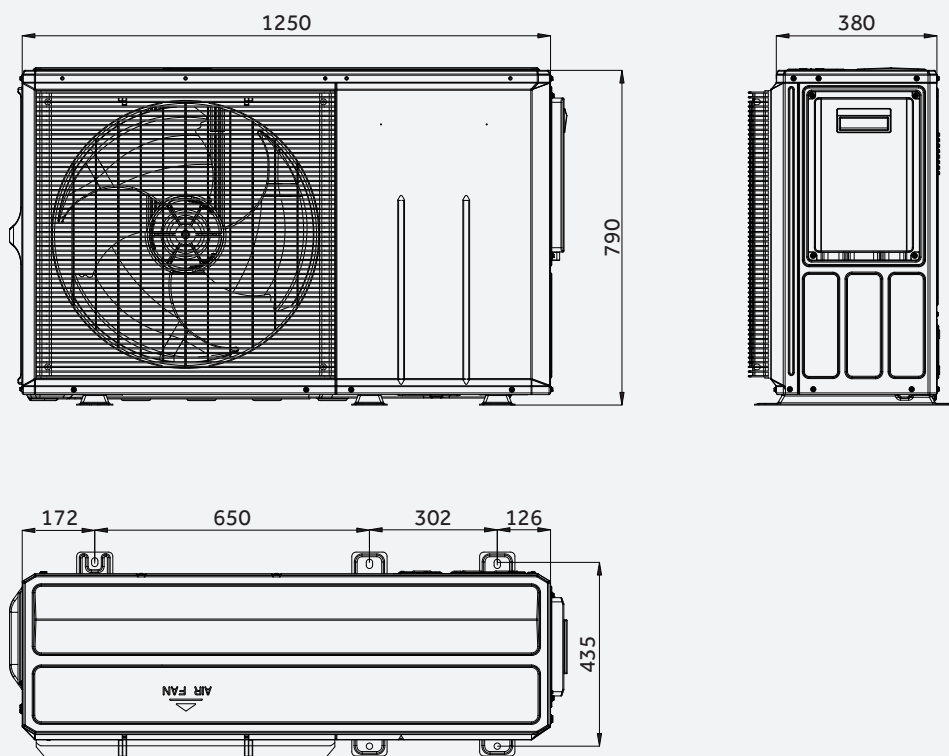


R290 HYDRO OUTDOOR

HYDRO ALL-IN-ONE

AW042HUGHA
AW062HUGHA
AW082HUGHA
AW102HUGHA

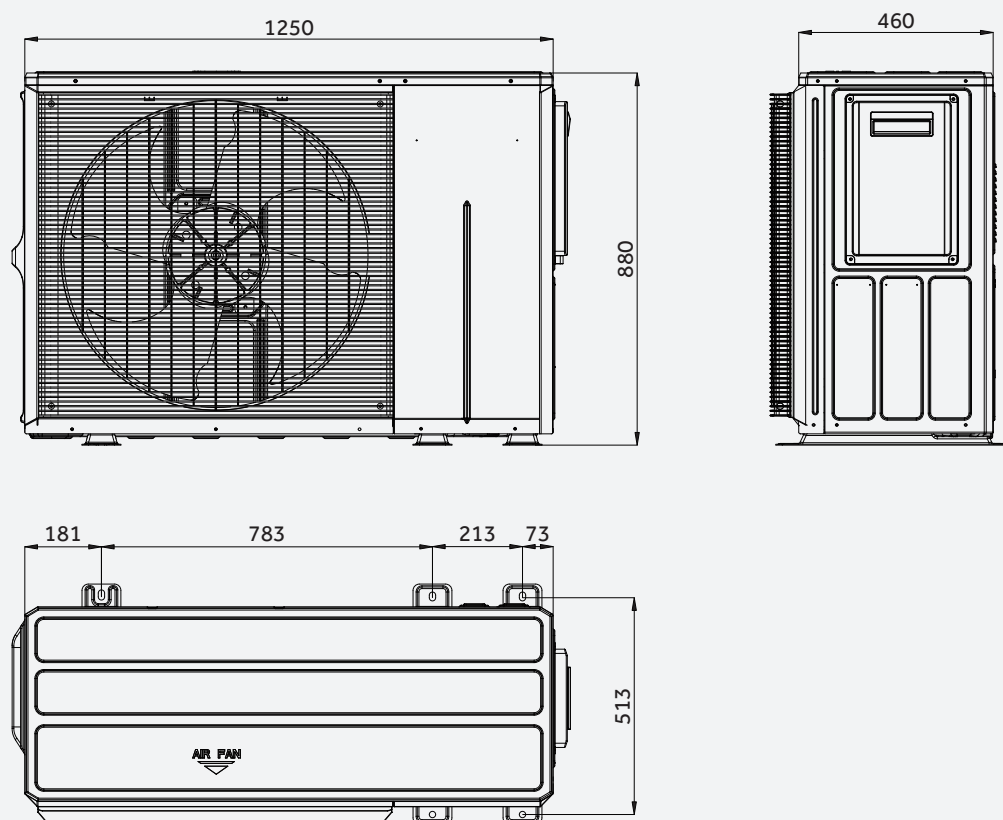
AW10NHUGHA



HYDRO ALL-IN-ONE

AW122HVGHA
AW142HVGHA
AW162HVGHA

AW12NHVGHA
AW14NHVGHA
AW16NHVGHA



R290 ALL IN ONE & HYDRO MODULE

HYDRO ALL-IN-ONE

HU102F20AHYA
HU162F20AHYA

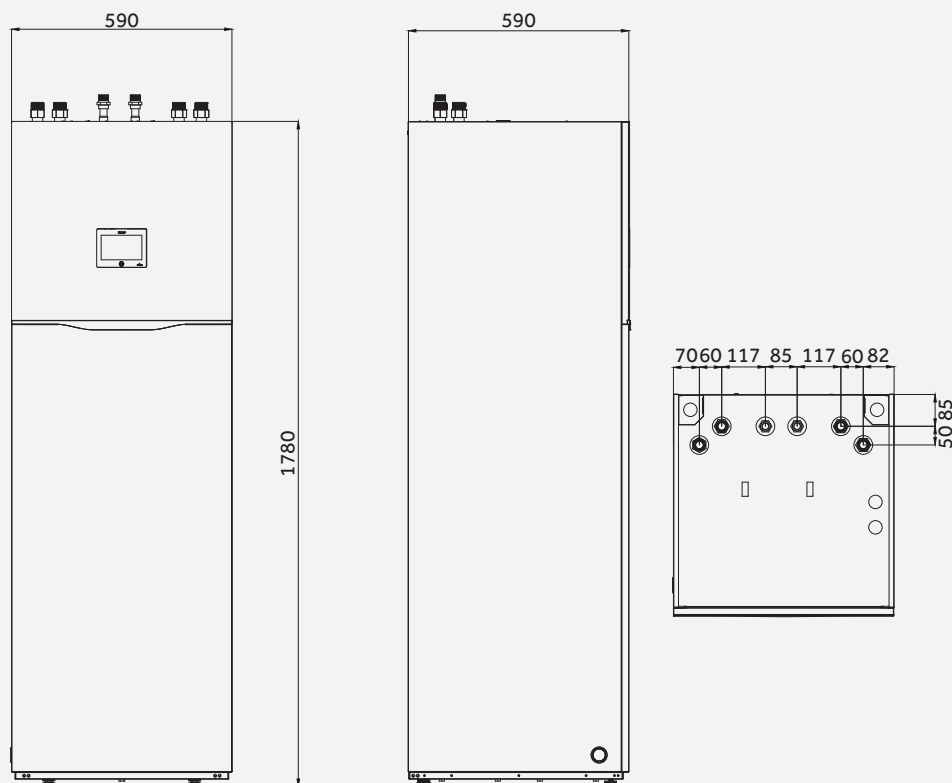
HU102F20AHYAE3
HU162F20AHYAE3

Only the height changes:

160Litre = 1580mm

200 Litre = 1780mm

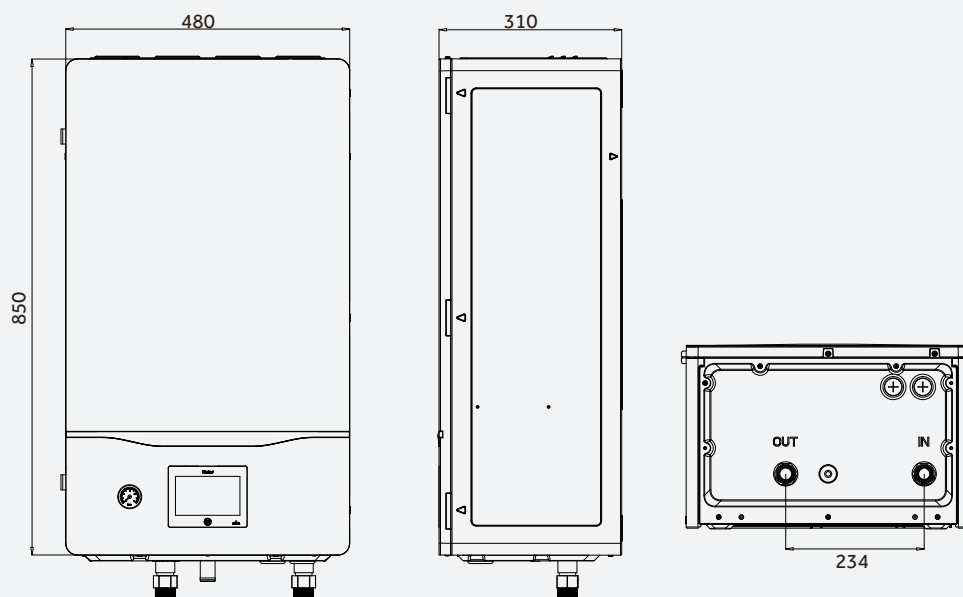
240 Litre = 1985mm



HYDRO SPLIT

HU102WAHYA
HU162WAHYA

HU10NWAHYAE3
HU16NWAHYAE3



NEW



WHY CHOOSE THE SUPER AQUA COMMERCIAL SERIES?

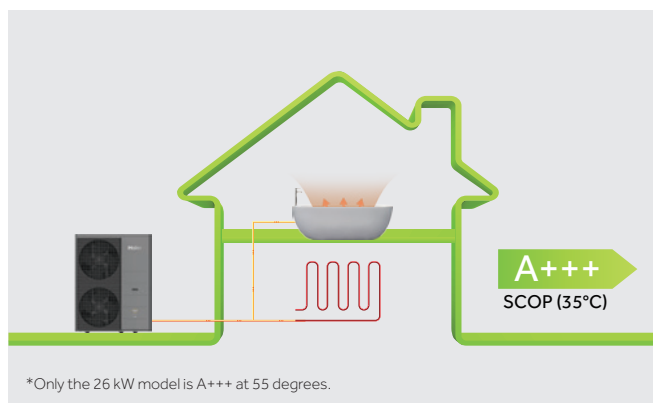
R290 Refrigerant

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



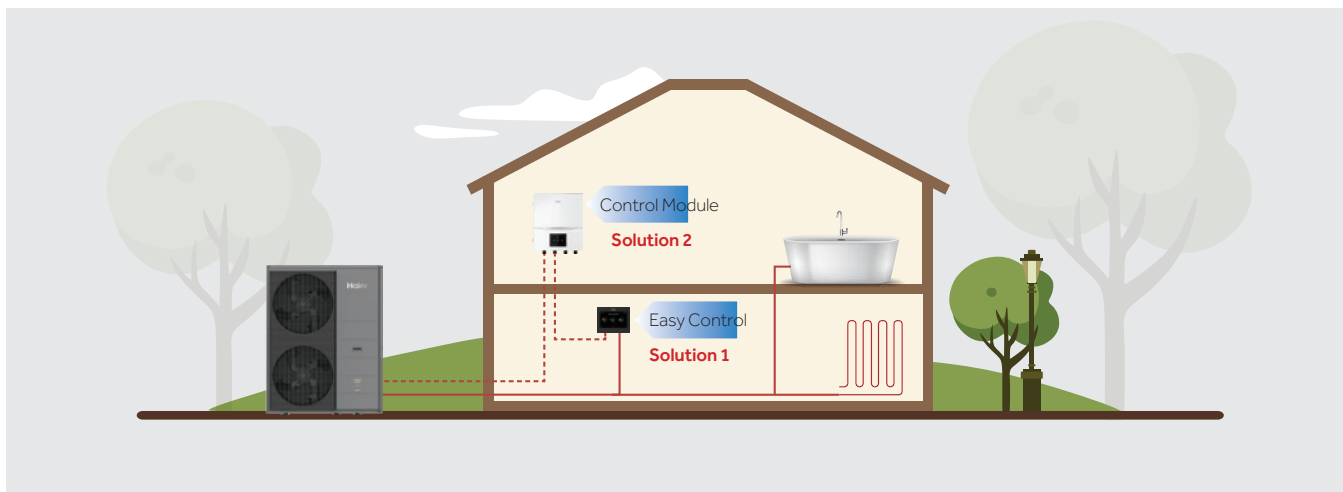
Energy Efficiency Level A+++ / A+++ (35°C/55°C)

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

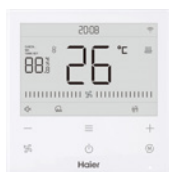
As a safety feature in response to the flammable properties of R290 refrigerant the system has been designed to include a fully enclosed electrical control box a refrigerant separator and refrigerant detector. In the event of refrigerant leakage the unit can quickly discharge the refrigerant and stop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

NEW

COMMERCIAL UNIT R290



AW26NMYGHA
AW30NMYGHA
AW35NMYGHA
AW40NMYGHA



ATW-E03 KIT
(Comes with WiFi
module & Controller
HW-WA101ADK.
Must be ordered
seperately)



ATW-A03N
(Must be ordered
seperately)

Model			AW26NMYGHA	AW30NMYGHA	AW35NMYGHA	AW40NMYGHA
Heating (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 (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 Average climate 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 Average climate 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 (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 (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 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 temperature range	Heating	°C	20~80	20~80	20~80	20~80
	Cooling	°C	5~25	5~25	5~25	5~25
Storage temperature 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 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

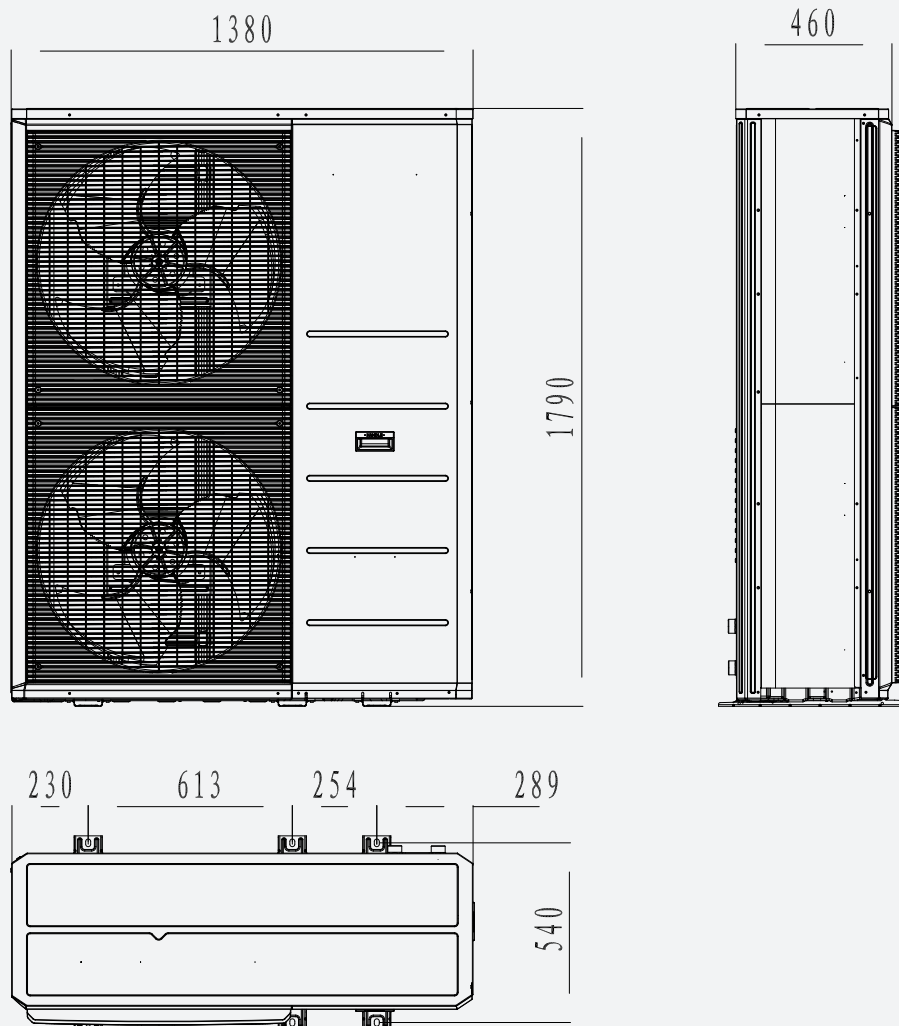
COMMERCIAL

AW26NMYGHA

AW30NMYGHA

AW35NMYGHA

AW40NMYGHA



Office

**Unit 12a/Unit 12b, Inch Buisness Park
Inch, Balbriggan
Co. Dublin
K32 X894**

Email

info@absol.ie

Call

+353 1 687 5765

haierhvac.eu

