



Haier Brand Story

Established in 1984, Haier Group is a world-leading provider of a better life and digital transformation solutions.

With users at the center of all we do, we have deployed 10 R&D centers, 71 research institutes, 33 industrial parks, 133 manufacturing centers and more than 230,000 sales networks worldwide. We are the world's only IoT ecosystem brand that has been ranked on the list of BrandZ Top 100 Most Valuable Global Brands for four years straight and topped Global Major Appliances Brand Rankings by Euromonitor International for 13 consecutive years. In 2021, our global revenue reached USD 52.2 billion, and our brand value reached USD 74.3 billion.

We own three listed companies. Our subsidiary Haier Smart Home is among the list of Fortune Global 500 and Fortune World's Most Admired Companies. We own seven global high-end brands, namely Haier, Casarte, Leader, GE Appliances, Fisher & Paykel, AQUA and Candy; and the world's first smart home scenario brand - THREE WINGED BIRD. In addition, we have built the world's leading Industrial Internet platform COSMOPlat and the great healthcare brand Yingkang Healthcare. Our entrepreneurship acceleration platform HCH has successfully incubated 7 unicorn companies, 102 gazelle companies, and 80 specialized and sophisticated enterprises.

As a representative of the real economy, we have been constantly focusing on the industry and develop businesses in smart home and living, Industrial Internet, and great healthcare sectors; and have been building high-end, scenario and ecosystem brands. Through technological innovation, we aim to customize a personalized smart living experience for global users, help corporate clients with digital transformation, and promote high-quality and sustainable economic and social development.

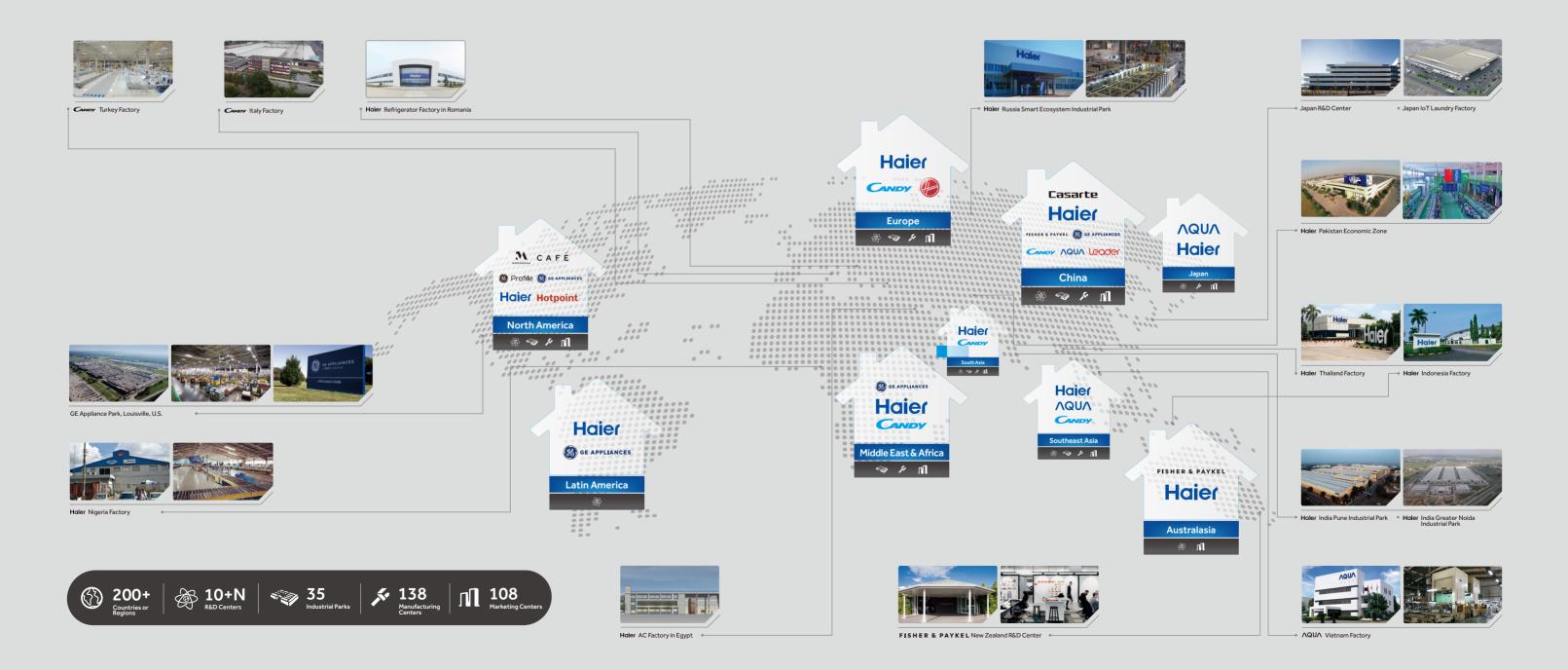


Haier Global Network

Haier has owned 10+N R&D centers, 35 industrial park, 138 factories, 108 marketing centers across the world, and the sales network over 200 countries or regions.

Haier has seven major household appliance brands across the world: Haier, Casarte, Leader, AQUA, Fisher & Paykel, GE Appliances (GEA) and CANDY. All these brands together have constituted Haier's global brand cluster, which can fully meet the best experience of different consumer groups in different regions all across the world.







Haier Smart Home was named one of Fortune's most admired companies in the world.



In 2020, Haier Smart Home was once again listed on the Fortune Global 500, ranking 13 up from last year.

Haier Global Manufacturing Capacity

In China, Haier owns 8 air conditioner factories, 1 of which is MHAQ, a JV between Haier and Mitsubishi Heavy. Besides China, Haier runs another 8 overseas air conditioner factories. These factories have a total production capacity of over 27.2 million units per year.



The First Batch of Chinese Local Enterprise Selected as "Lighthouse Factory" in the world

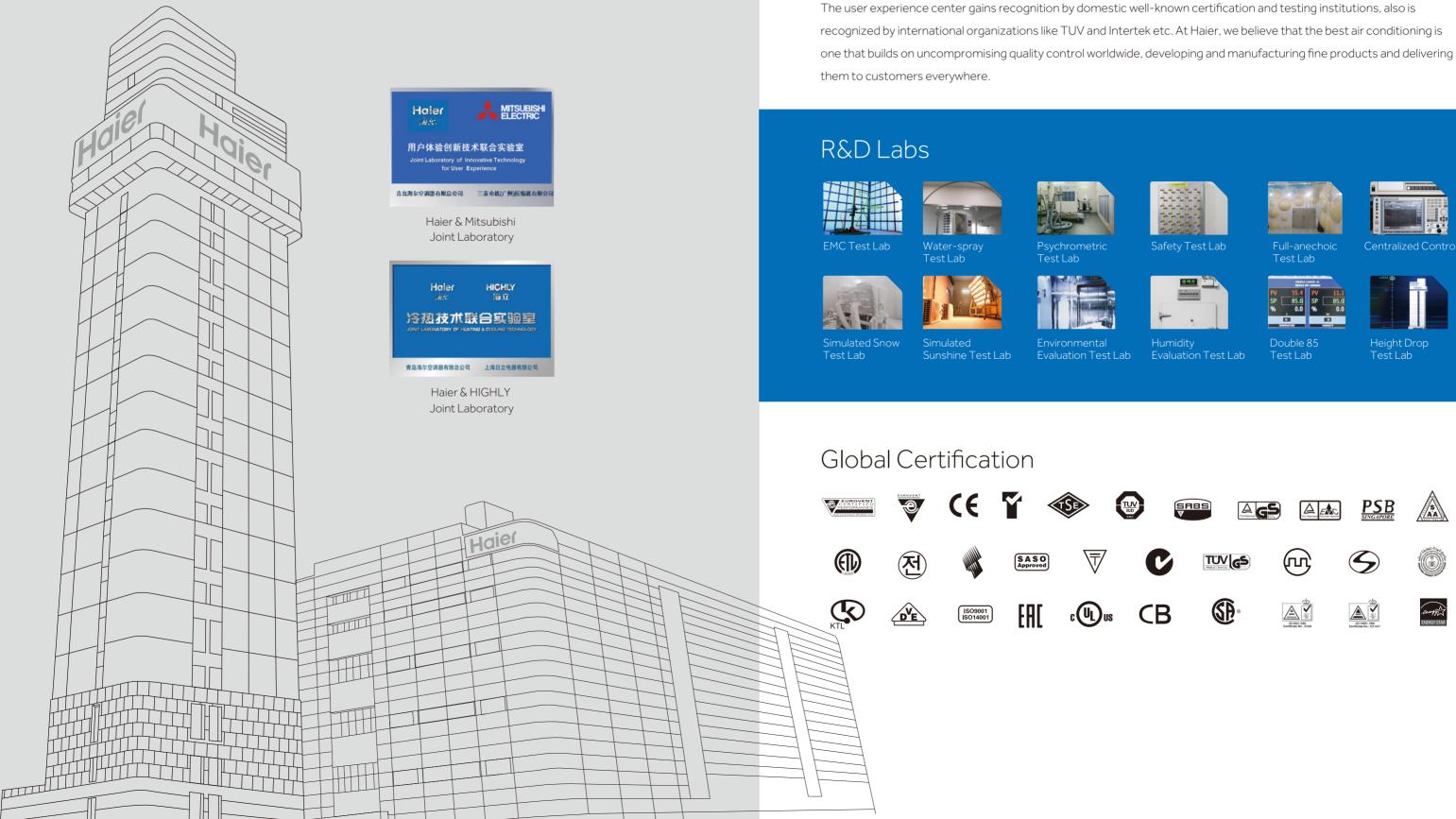






Haier R&D Center

Haier Air Conditioning R&D Center, located in Qingdao, China, completed in December 2013, covers 20,000 square meters. It has more than 120 laboratories, including testing laboratories, key part research laboratories and all-weather user experience simulation laboratories. The R&D center also has the world tallest "drop tower" for testing long refrigerant piping tests(106 meters tall).



In April 2014, Haier established joint laboratories with Highly for research in heating & cooling technology and with Mitsubishi Electric for innovative technology for user experience. Research by the user experience center covers the fields of user comfort evaluation, aerodynamics, acoustics, EMC(Electro-Magnetic Compatibility) and mechanics etc. The labs can carry out more than 600 international tests as per ISO, IEC, EN, CISPR and ANSI etc. to meet the requirements of Europe, Asia, America, Australia, Middle East and other 100 countries and regions.













	X+++	Efficiency class	Efficiency class at 35°C leaving water temperature/ efficiency class at 55°C leaving water temperature.
High Efficiency	DC	Full DC inverter technology	Full DC inverter compressor and DC brushless fan are adopted.
	CA+	DHW efficiency	Domestic hot water efficiency class .
	B.	2 zone control	Control two different water temperatures for zone1 and zone2.
		Max LWT	Maximum leaving water temperature.
		Fast DHW	Start the electrical heater in the DHW tank to heat the domestic hot water in the shortest time.
Ultimate		Quiet mode	Lower the operating sound level by reducing the woring speed of the compressor and fan motor in the preset periods.
Comfort	Turbo	Turbo mode	Increase the woring speed of the compressor and fan motor to realize setting temperature in shorter time.
		Climate curve	Through climate curve function, Zone1 and Zone2 temperatures can be automatically controlled based on the outdoor ambient temperature.
	55°C	Sterilization	Control the electric heater in the DHW tank, heating the water of the tank to kill this bacteria.
	AUTO	Auto mode	Enable the unit to operate either heat or cool mode automatically according to the ambient temperature.
		Smart grid	Automatically adjust operation status of the heat pump based on signals received from power supply companies.
Intelligence	BMS	Modbus	Integrate the Modbus communication protocol, no additional Modbus gateway needed.
Intelligence		Energy monitoring	View and explore real-time power and daily energy consumption in kWh.
	\bigcirc	WiFi	Remote control for easy operation.

	T	Holiday mode	In this mode
		Scheduling programs	Users can cr operation, m schedule pro
		DHW tank solar thermal control	Control the
Intelligence		Auxiliary heating source	Allow the sys
	E	Pool heating	Provide the e
		Bivalence control	When the sy controller. w and the heat
		Cascade control	Max 8 units o
	DRY	Floor drying	Preheat the
High Reliability	*	Anti-freezing	The corresp
		Anti-rust and corrosion of water pump	The corresp corrosion.
Super	6	Error history	Check the hi troubleshoo
Convenience		Parameters check	Many import Status" func parameters

Icon Guide

le, the heat pump will work according to the minimum requirement.

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

e solar thermal function of the tank for heating domestic hot water.

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

e control for heating the pool water.

system is combined with a boiler, the 'bivalent connection' can be set by the when outdoor ambient temperature drops to a certain level, boiler is turned on at pump is turned off.

s can be combined in one system.

e floor to remove the waterfrom the floor.

sponding control logic is used to protect the water system against freezing.

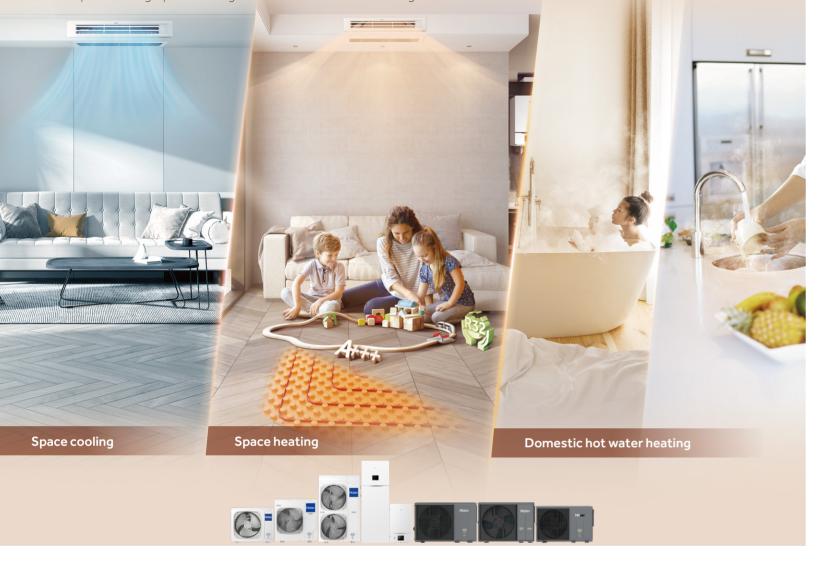
sponding control logic is used to protect the water pump against rust and

historical error record via the controller, which is convenient for fast poting.

rtant parameters about the system can be check through the "System action, including the system parameters, heat pump unit parameters. These s are helpful for service man to diagnose the system.

What is Haier SUPER AQUA Air to Water Heat Pump?

Haier Super Aqua air to water heat pump uses free energy from outside air as main energy source for space cooling, space heating and domestic hot water heating.



Heat pump system

In order to get 5kW of heat for your home, the heat pump system only needs 1kW of electricity, and 4kW of energy is from the outdoor air. It is very energy saving and reduce the operating cost and CO emissions in heating compared to conventional boiler.



Туре	Monobloc 🗐 🌐 😂 실		Split 🗐 🍪 🤔	Hydro split	Hydro all in one				
Description	Monobloc type heat pum equipment, which include components. It consists of The advantage of the mo installation and no additio requirement.	s all hydraulic of only one outdoor unit. nobloc system is easy	Split type heat pumps consist of one outdoor unit and one indoor unit. The heat exchange between the refrigerant and water is finished in the heat exchanger of indoor unit. The advantage of the split system is better anti-freeze effect. Because there are no water pipes exposed outside.	Hydro split type heat pumps consist of one outdoor unit and one indoor unit. The heat exchange is in the outdoor unit. The outdoor unit and indoor unit are connected through water pipes. The advantage of this system is that it can prevent dangerous types of refrigerant from entering the room, ensuring indoor safety.	The operating principle of the Hydro all in one system is similar to the Hydro split. The system integrates a domestic water tank. The advantage of this system is good integration, without the need to purchase a separate water tank.				
	EN series	HE series	HE series	GT series	GT series				
Series									
	55/60	60	60	80	80				
Efficiency class	A+++ 35°C water 5kw A++ 35°C water 11/14/16kw	A+++≻ 35°C water	A+++> 35°C water	A+++≻ 35°C water	A+++> 35°C water				
	Benefits								
Full DC inverter technology	•	٠	•	•	•				
2 zone control		٠	•	•	•				
Maximum leaving water temperature		٠	•	•	•				
Fast DHW		٠	•	•	•				
Quiet mode		٠	•	•	•				
Turbo mode	•	•	•	•	٠				
Climate curve		٠	•	•	•				
Sterilization		•	٠	•	٠				
Auto mode		•	•	•	•				
Smart grid		•	٠	•	•				
Modbus	•	•	٠	•	•				
Holiday mode		•	•	•	•				
Scheduling Programs		٠	•	•	•				
DHW tank solar thermal control		•	•	•	•				
Auxiliary heating source	•	•	•	•	•				
Pool heating		•	•	•	•				
Bivalence control		•	•	•	•				
Cascade control		•	•	•	•				
Floor drying	•	•	•	•	•				
Anti-freezing	•	•	•	•	•				
Anti-rust and corrosion of water pump		•	•	•	•				
Error history		•	•	•	•				
Parameters check		•	•	•	•				







14 kW	15/16 kW
AW142(N)MXGHA	AW162(N)MXGHA
AW142(N)MXCHA	AW162(N)MXCHA
	AU162FYCRA(HW)
AW142(N)HVGHA HU162WAHYA HU16NWAHYAE3	AW162(N)HVGHA HU162WAHYA HU16NWAHYAE3
AW142(N)HVGHA HU162F20AHYA HU162F20AHYAE3	AW162(N)HVGHA HU162F20AHYA HU162F20AHYAE3

Why Choose Haier SUPER AQUAGT series?



Natural refrigerant R290

Thanks to the excellent thermodynamic performance of R290 and advanced heat pump technology, it helps to reduce carbon emissions and achieve carbon neutrality goals.

Based on this, Haier has developed the R290 Super Aqua GT series.



High-efficiency

Max cop up to 5.50

The GT series has excellent performance. Higher compression ratio and lower oil compressors and the efficient internal thread regenerator is used in the appliance to increase the suction temperature and improve the energy efficiency of the unit. The maximum value of COP can reach 5.50.



SCOP A+++/A+++ (35°C/55°C)

The SCOP at 35°C and 55°C water temperature both reach the top class A+++.



Ultimate Comfort

High leaving water temperature

The max leaving water temperature can reach 80°C, leading in the industry. It is the best solution to replace the boiler heating.



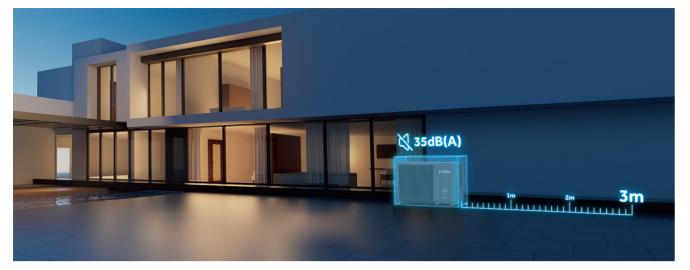
Hot water ERP class A+

DHW eficiency level reach the top class A+.



Low sound level

With excellent design, the Haier Super Aqua GT series sound pressure Level as low as 35dB (A) at 3 meters.



% Super Convenience

Compact design

All in one indoor unit covers an area of only 590*590mm, the smallest area in the industry, suitable for hidden installation of apartments.



High Reliability

Wide operating range

The GT series can operate normally at minus 28°C, and the heating capacity does not decay at minus 10°C, providing a guarantee for users to warm in cold weather.



Easy installation and easy maintenance From the convenience of installation and maintenance,

the internal structure is optimized, the layout is more reasonable, and the components can be removed and assembled without interfering with each other.



Silver brazing technology

To deal with the R290 refrigerant which is combustible,optimize the system design by reducing welding joints and adopting silver brazing welding technology to ensure stronger welding and avoid leakage.



Refrigerant separator

Refrigerant separator can quickly discharge the refrigerant from the water system in case of leakage and prevent it from entering the water system and indoor space.



A Intelligence

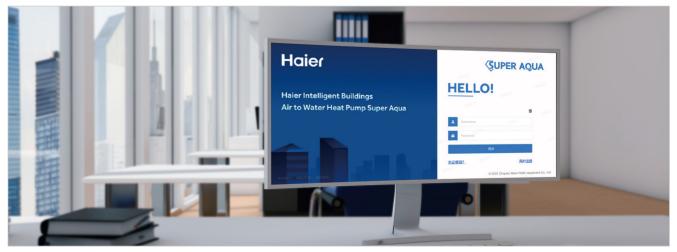
Smart control

With Haier Wi-Fi control you can check the running state of heat and allows you to have flexibility and control of your heat pump. It deliver a simply life for you.



Selection software

The system is built on the Cloud and authorized users to operate by browser, Users can visit the system by mobile terminals and computers; It can support all the ATW heat pumps models to select and design. The system can finally output the corresponding selected results and the overall project plan report.



Sealed electric control box

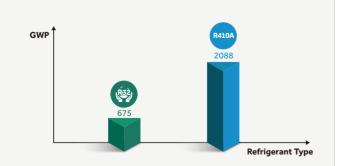
Explosion-proof electric control design, more safety for R290 product, is used to avoid potential fire hazards and provide strong protection for user safety.

When the series of the series

Environmentally-friendly

Eco-friendly R32

All Super Aqua products use the future refrigerant: R32, which has been shown to have a remarkably reduced environmental impact compared to other refrigerants such as R410A.

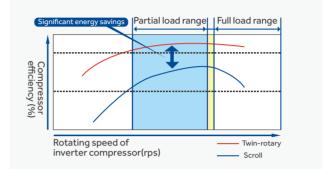


High-efficiency

The EN series efficiency class is up to the highest class A+++ at 35°C leaving water temperature and A++ at 55°C leaving water temperature for space heating.

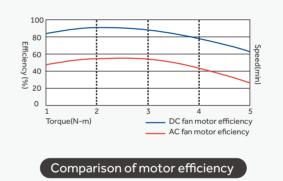
Full DC inverter technology

All the heat pumps adopt full DC inverter twin-rotary compressor which has smaller size and higher efficiency compared with scroll compressor. Because the smaller friction of the compressor, the running vibration is lower, realizing the high efficiency and low noise of the compressor.



Stepless adjustment technology

The high-efficiency DC motor is used for stepless adjustment. The operating power of the unit is adjusted with the change of water temperature and load to improve heat exchange efficiency and reduce the power and noise of the unit.



Ultimate Comfort

60°C hot water

Haier Super Aqua offers an integrated solution to guarantee the total comfort in your home. Leaving water temperature ranges from 5°C to 60°C, which provides comfortable cooling and heating for users. In addition, production of domestic hot water is guaranteed all year. The air-side equipments can be fan coil, underfloor heating or radiator, which can meet different installation scenarios.





Fan Coil

Jnderfloor Heating

•011•







Low sound level

Multiple noise reduction measures ensure a low sound level.

Compressor

Covered by the soundproof material, blocking noise reduction from the compressor; Mounted on the rubber anti-vibration mounts for guite operation and low vibration.

Axial fan

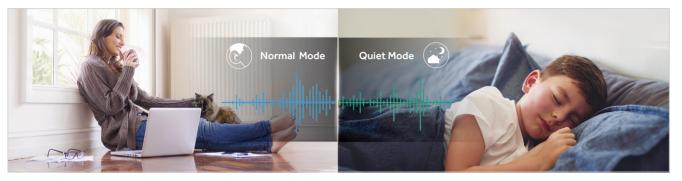
Brushless DC fan motor and aerodynamically optimized impeller for noise and vibration reduction.

Pipeline design

New structure and optimized design of pipeline effectively avoid pipeline noise and vibration.

Quiet mode

In addition, quiet mode is available for quiet operation at night.



% Super Convenience

Easy installation

Compact design allows the unit to be installed even when the space is limited.



High Reliability

Intelligent anti-freezing technology

The anti-freeze program protects hydraulic parts from damage.



Wide operation range

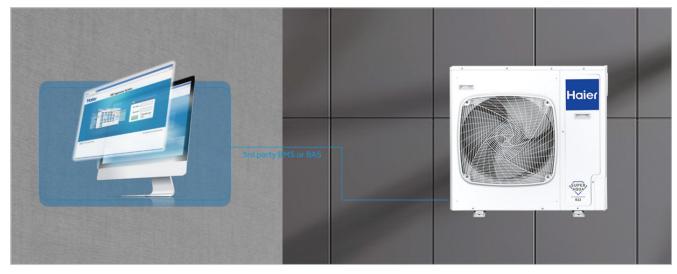
The operating outdoor ambient temperature of the heating mode is as low as -25°C.



A Intelligence

Easy 3rd party BMS solution

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



& Wide Application

Capacity range from 4kW to 19kW, Haier Super Aqua is suitable for both residences and small –sized commercial application scenarios. Small-capacity units are applied mainly in newly built residential buildings with their improved insulation materials whilst. Medium-capacity products are mainly used for refurbishments. Big-capacity products can be installed in small-sized commercial applications, such as Café, restaurant, hair salons and so on.



UPERAQUAMonobloc EN R32 Reversible Air-to-water heat pump



Reatures



- Eco-friendly R32
- Full DC inverter technology
- 5kW unit COP at 35°C leaving water temperature reaches 5.05
- Max 60°C hot water (5kW)
- Wide heating operation range (5kW: ambient temperature: -25~35°C)
- Built-in flow switch, safety vavle for easy installation

Monobloc EN Specification



Model			AU052FYCRA(HW)	AU082FYCRA(HW)
	Capacity	kW	5.00	7.80
Heating (LWT 35°C / OAT 7°C)	Power input	kW	0.99	1.77
	COP	-	5.05	4.40
	Capacity	kW	5.00	7.01
Heating (LWT 55°C / OAT 7°C)	Power input	kW	1.64	2.76
	COP	-	3.05	2.54
	SCOP	-	4.59	3.87
Space heating average climate water outlet 35°C	ηs	%	180	152
water outlet 55 C	Energy class	-	A+++	A++
	SCOP	-	3.32	2.90
Space heating average climate	ηs	%	130	113
water outlet 55°C	Energy class	-	A++	A+
	Capacity	kW	5.00	7.00
Cooling (LWT 18°C / OAT 35°C)	Power input	kW	1.00	1.89
	EER	-	5.00	3.70
	Capacity	kW	5.00	5.50
Cooling (LWT 7°C / OAT 35°C)	Power input	kW	1.56	2.34
	EER	-	3.20	2.35
Outdoor operating	Heating	°C	-25~35	-20~35
temperature range	Cooling	°C	10~46	10~46
Leaving water	Heating	°C	25~60	25~55
temperature range	Cooling	°C	5~20	5~20
Water flow rate	1	L/min	14.3	23.0
Water piping connection	Inlet/Outlet	inch	RC 3/4"	RC 1"
0	Quantity	-	1	
Compressor	Туре	-	DC inverter	twin rotary
Defiinement	Туре	-	R3	2
Refrigerant	Charge/CO₂ Eq.	kg/T	1.00/0.675	1.15/0.777
Net dimension	(H×W×D)	mm	765×920×372	965×950×370
Packing dimension	(H×W×D)	mm	875×1045×488	1108×1010×480
Net/Gross weight		kg	69/80	87/97
Sound power level		dB(A)	61	64
Power supply		~/V/Hz	1,220-240,50/60	1, 220-240, 50/60
Max running current		A	13.5	21.3
Recommended circuit breaker		A	30	32
	Wired controller	/	YR-E27A (Standard)	YR-E27 (Standard)
Accessory	DHW PCB	/	ATW-A01	Optional)
	Filter	/	Stand	dard

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 EN2102-1 under conditions of EN14825.
4. The above data may be changed without notice for future improvement on quality and performance.









Monobloc EN Specification

AU112FYCRA(HW AU162FYCRA(HW	- 552	R-E27(St	andard) ATW	/-A01(Optional)
1odel			AU112FYCRA(HW)	AU162FYCRA(HW)
	Capacity	kW	11.00	16.00
leating (LWT 35°C / OAT 7°C)	Power input	kW	2.61	3.86
	COP	-	4.22	4.15
	Capacity	kW	9.99	14.01
eating (LWT 55°C / OAT 7°C)	Powerinput	kW	4.40	5.63
	COP	-	2.27	2.49
	SCOP	-	4.35	4.00
pace heating average climate ater outlet 35°C	ηs	%	171	157
	Energy class	-	A++	A++
	SCOP	-	3.20	3.09
Space heating average climate vater outlet 55°C	ηs	%	125	121
ater outlet 55°C	Energy class	-	A++	A+
	Capacity	kW	13.50	16.00
ooling (LWT 18°C / OAT 35°C)	Powerinput	kW	2.94	3.64
	EER	-	4.60	4.40
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	11.50	14.50
	Powerinput	kW	3.83	4.92
	EER	-	3.00	2.95
utdoor operating	Heating	°C	-20~35	-20~35
emperature range	Cooling	°C	10~46	10~46
eaving water	Heating	°C	25~55	25~55
mperature range	Cooling	°C	5~20	5~20
ater flow rate	-	L/min	31.5	45.8
ater piping connection	Inlet/Outlet	inch	RC 1"	RC 1''
	Quantity	-	1	
ompressor	Туре	-	DC inverter t	win rotary
	Туре	-	R32	
efrigerant	Charge/CO₂ Eq.	kg/T	2.40 / 1.620	2.60/1.755
et dimension	(H×W×D)	mm	1500×950×370	1500×950×370
acking dimension	(H×W×D)	mm	1638×1010×480	1638×1010×480
et/Gross weight		kg	145/157	145/157
ound power level		dB(A)	67	68
ower supply		~/V/Hz	1,220-240,50/60	1,220-240,50/60
ax running current		A	24.3	31.7
ecommended circuit breaker		A	32	40
	Wired controller	/	YR-E27 (St	tandard)
ccessory	DHW PCB	/	ATW-A01(
	Filter	/	Stand	· · · · · · · · · · · · · · · · · · ·

eatures R32 R32

urbo bo mode





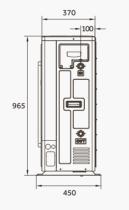
-freezing

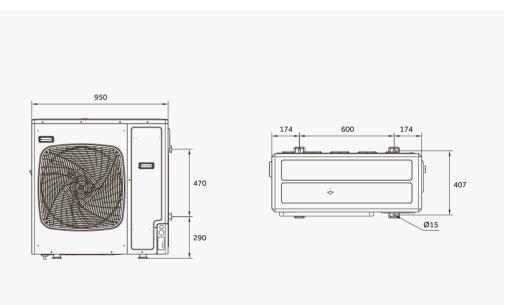


AU052FYCRA(HW)

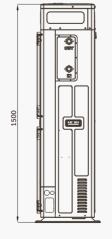
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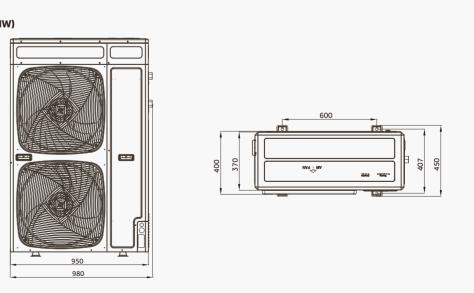
AU082FYCRA(HW)



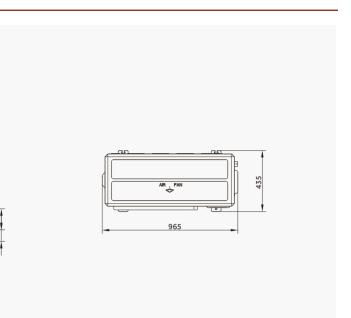


AU112FYCRA(HW)/AU162FYCRA(HW)





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 EN2102-1 under conditions of EN14825.
4. The above data may be changed without notice for future improvement on quality and performance.



Why Choose Haier SUPER AQUA HE series?



Ultimate Comfort

High leaving water temperature

High leaving water temperature of 60°C is guaranteed without using a backup heater when the outdoor temperature is higher than -15°C.





ENITY IN TROUBLE

Fast DHW

The HE series produts have fast DHW function. When Fast DHW is activated, the electrical heater in the domestic water tank will be activated at the same time together heat pump in order to reach DHW setting point as soon as possible, which will not affected by outdoor ambient temperature and compressor running time.

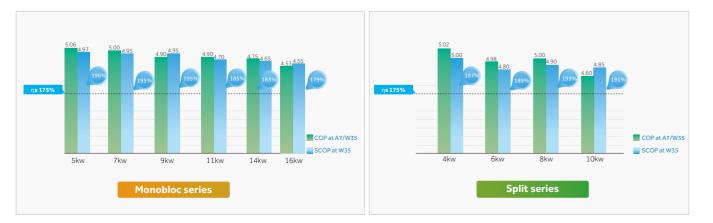
Note: Only valid when DHW mode is selected.



See High-efficiency

High efficiency

The HE series heat pumps have the top efficiency class A+++. The SCOP at 35°C leaving water temperature can reach 5.00 and the COP at 35°C leaving water temperature is up to 5.02.



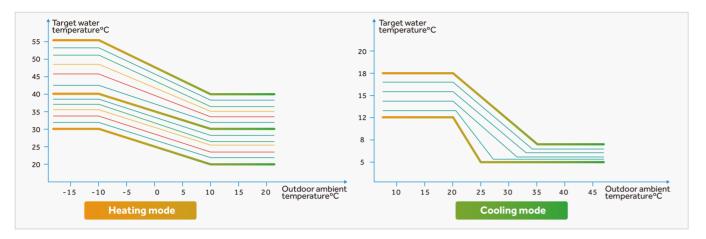
2 zone control

When there are different room temperature requirements, two zone temperature control through separate heating or cooling circuits is possible. Adjust and maintain two different water temperatures to achieve intelligent control and saving energy.

% Super Convenience

Climate curves

Through climate curve function, Zone1 and Zone2 temperatures can be automatically controlled based on the outdoor ambient temperature. A personalized climate curve can designed through setting the outdoor ambient temperature and leaving water temperature. It will be more comfortable and energy-saving.



Sterilization

Users can directly turn on the sterilization function, and set the date and time on the controller. The water of the domestic water tank can be automatically heated to 75°C to kill the legionnella at fixed periods. During the process of sterilization, the controller screen will display the icon to remind users that the system is conducting sterilization. Note: Only when the electric heater in the domestic water tank is allowed be controlled by Haier unit.



Check error information

When error occurs, the service man can not only check the current errors, but also the historical error records, which is convenient for fast troubleshooting.

Check system parameters

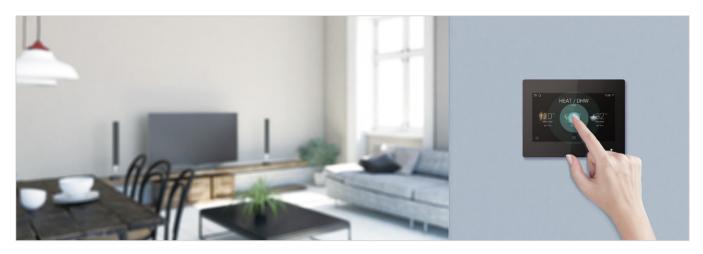
Many important parameters about the system can be check through the 'System Status' function, including the system parameters, indoor unit parameters and outdoor units parameters. These parameters are helpful for service man to diagnose the system.

Auto mode

Under Auto mode, the cool mode and heat mode can be automatically converted 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.

Easy control

There is a 5-inch colorful controller. for HE series It can be easily operated through the touch screen and intuitive icons.



Cascade control

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

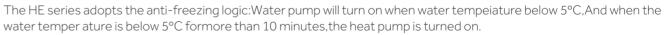


High Reliability

Intelligent anti-freezing technology

water temper ature is below 5°C formore than 10 minutes, the heat pump is turned on.





Floor drying

Before floor heating, if a large amount of water remains on the floor, the floor may be warped or even ruptured during floor heating operation, in order to protect the floor, floor drying is necessary, during which the temperature of the floor should be increased gradually.



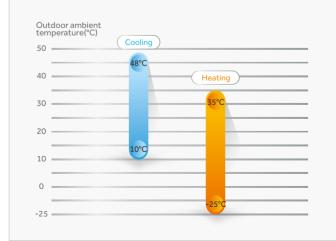
Anti-rust and corrosion of water pump

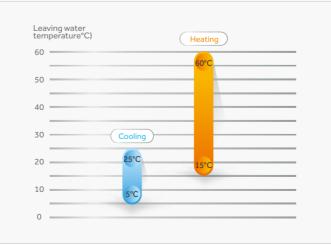
The HE and EN series heat pump has water pump anti-corrosion function. The water pump will automatically run 60s without any working within 24h, as the following curve shows and conduct one circulation per 24h.



Wide operation range

The operating outdoor ambient temperature of the heating mode is as low as -25°C.

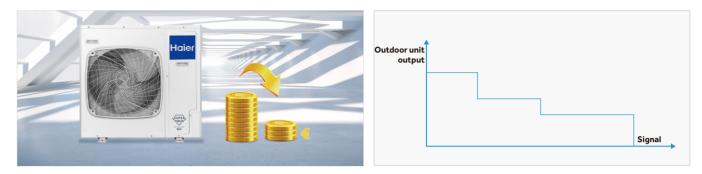




t (⇒ Intelligence

Smart grid

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



Scheduling programs

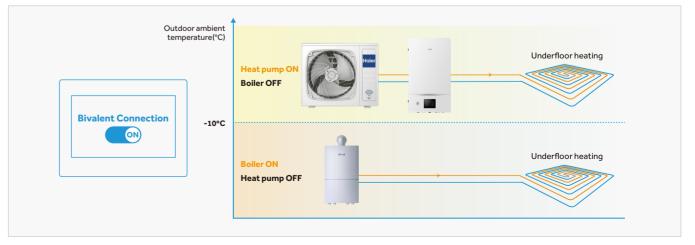
Users can create schedule programs, including naming the programs, timer on/off operation, mode selection, leaving temperature setting and the frequency etc. Once the schedule program is set, the system will run according the pre-set program automatically.

	Sc	heduling	g Programs	
	0:00	8:00	17:30	24:00
Mon	ON		OFF	ON
Tues	ON		OFF	ON
Wed	ON		OFF	ON
Thur	ON		OFF	ON
Fri	ON		OFF	ON
Sat			ON	
Sun			ON	

Bivalent connection

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.



UPER AQUA Monobloc HE R32 Reversible Air-to-water heat pump

The new generation reversible air-to-water monobloc series provides heating, cooling and domestic hot water for home. It has higher efficiency and can help users save the operating costs.



Reatures



- SCOP at 35°C leaving water temperature up to 4.97
- COP at 35°C leaving water temperature up to 5.06
- 60°C hot water is guaranteed (outdoor temperature > -15°C)
- Wide heating operation range (ambient temperature: -25~35°C)
- Built-in expansion vessel, flow switch, safety vavle for easy installation
- 5-inch colorful controller with full touch screen
- Refrigerant cooling for compressor driver module
- Double EEV design for better heating under low outdoor temperature
- Max. 8 units connectable into one system for larger capacity demands

Monobloc HE Specification

AW052MUCHA AW072MUCHA AW092MUCHA

AW112MXCHA

Model			AW052MUCHA	AW072MUCHA	AW092MUCHA	AW112MXCHA			
	Capacity	kW	5.00	7.00	9.00	11.00			
Heating (LWT 35°C / DAT 7°C)	Powerinput	kW	0.99	1.40	1.84	2.24			
	COP	W/W	5.06	5.00	4.90	4.90			
	Capacity	kW	5.00	7.00	8.50	10.50			
Heating (LWT 55°C / OAT 7°C)	Powerinput	kW	1.69	2.41	3.09	3.50			
	СОР	W/W	2.95	2.90	2.75	3.00			
and heating	SCOP	-	4.97	4.95	4.95	4.70			
Space heating average climate	ηs	%	196	195	195	185			
water outlet 35°C	Energy class	-	A+++	A+++	A+++	A+++			
Space beating	SCOP	-	3.52	3.38	3.34	3.40			
Space heating averageclimate	ηs	%	138	132	131	133			
vater outlet 55°C	Energy class	-	A++	A++	A++	A++			
	Capacity	kW	5.00	7.00	8.00	10.00			
Cooling (LWT 18°C / DAT 35°C)	Power input	kW	1.02	1.44	1.86	2.27			
OAT 55 C)	EER	-	4.90	4.85	4.30	4.40			
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	5.00	7.00	8.00	10.00			
	Power input	kW	1.56	2.19	2.76	3.23			
	EER	-	3.20	3.20	2.90	3.10			
Outdoor operating Heating		°C		-25	~ 35	1			
emperature range	Cooling	°C		10-	-48				
_eaving water	Heating	°C	25~60						
emperature range	Cooling	°C	5~25						
Nater flow rate		L/min	14.3	20.1	25.8	31.5			
Nater piping connectior	nInlet/Outlet	inch	R 1	R 1	R 1	R 1			
~	Quantity	-		1	L	1			
Compressor	Туре	-	DC inverter twin rotar						
	Туре	-		R	32				
Refrigerant	Charge/CO2 E	q.kg/T	1.3/0.88	1.3/0.88	1.4/0.95	1.8/1.22			
Net dimension	H×W×D	mm		790×12	50×380	880×1380×460			
Packing dimension	H×W×D	mm		1022x13	395x550	1112x1526x630			
Net/Gross weight		kg	81/109	81/109	85/113	108/148			
Sound power level		dB(A)	60	61	62	63			
		V/~/Hz		220-2	40/1/50	1			
		A	12	12	16	20			
Max. running current	tbreaker	A	16	16	20	25			
Max. running current	t breaker Wired controll	-	16	16	20	25			
Max. running current Recommended circui Accessory		-	16		20 2 (Optional)	25			

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 EN2102-1 under conditions of EN14825. Anti-freezing

4. PCB box is needed when using solar thermal function and pool heating function.

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



HW-WA101DBT (standard)



ATW-A02(optional)



Monobloc HE Specification

AW142(N)MXCHA AW162(N)MXCHA



ATW-A02(Optional)

Model			AW142MXCHA	AW162MXCHA	AW11NMXCHA	AW14NMXCHA	AW16NMXCH		
	Capacity	kW	14.00	16.00	11.00	14.00	16.00		
Heating (LWT 35°C / OAT 7°C)	Powerinput	kW	2.95	3.53	2.24	2.95	3.53		
	СОР	W/W	4.75	4.53	4.90	4.75	4.53		
	Capacity	kW	13.50	15.20	10.50	13.50	15.20		
Heating (LWT 55°C / OAT 7°C)	Power input	kW	4.82	5.53	3.33	4.82	5.53		
	СОР	W/W	2.80	2.75	3.00	2.80	2.75		
Space beating	SCOP	-	4.65	4.55	4.70	4.65	4.55		
Space heating average climate	ηs	%	183	179	185	183	179		
water outlet 35°C	Energy class	-	A+++	A+++	A+++	A+++	A+++		
Space heating	SCOP	-	3.45	3.40	3.40	3.45	3.40		
averageclimate water outlet 55°C	ηs	%	135	133	133	135	133		
	Energy class	-	A++	A++	A++	A++	A++		
	Capacity	kW	13.50	15.20	10.00	13.50	15.20		
Cooling (LWT 18°C / OAT 35°C)	Powerinput	kW	3.14	3.80	2.27	3.14	3.80		
,	EER	-	4.30	4.00	4.40	4.30	4.00		
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	12.00	14.00	10.00	12.00	14.00		
	Powerinput	kW	4.21	5.28	3.23	4.21	5.28		
	EER	-	2.85	2.65	3.10	2.85	2.65		
Outdoor operating	Heating	°C	-25~35						
temperature range	Cooling	°C	10~48						
Leaving water	Heating	°C		25~60					
temperature range	Cooling	°C			5~25				
Water flow rate		L/min	40.1	45.9	31.5	40.1	45.9		
Nater piping connectior	Inlet/Outlet	inch	R 1	R 1	R 1	R 1	R 1		
Comprocess	Quantity	-			1				
Compressor	Туре	-		DC	C inverter twin rot	tar			
	Туре	-			R32				
Refrigerant	Charge/CO2 E	q.kg/T	2.5/1.69	2.5/1.69	1.8/1.22	2.5/1.69	2.5/1.69		
Net dimension	H×W×D	mm			880×1380×460				
Packing dimension	H×W×D	mm			1112×1526×630				
Net/Gross weight		kg	117/157	117/157	108/148	117/157	117/157		
Sound power level		dB(A)	65	65	63	65	65		
Power supply		V/~/Hz	220-24	0/1/50		380-415/3/50			
Max. running current		A	32	32	10	12	12		
Recommended circuit	t breaker	A	40	40	16	16	16		
	Wired controlle	er/							
Accessory	PCB box	/		A	TW-A02 (Option	al)			



Key Features

R<u>3</u>2











Modbus



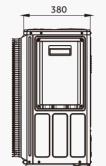
DHW tank solar control



Pool heating



AW052MUCHA AW072MUCHA AW092MUCHA



Outline Dimension

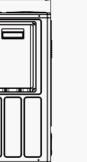


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AW112(N)MXCHA AW142(N)MXCHA AW162(N)MXCHA

460

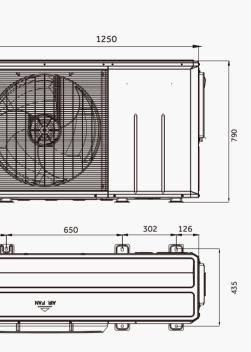


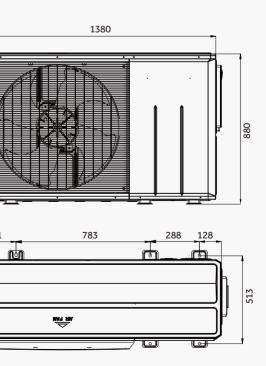


Filter

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 EN2102-1 under conditions of EN14825. 4. PCB box is needed when using solar thermal function and pool heating function. 5. The above data may be changed without notice for future improvement on quality and performance.

Standard







The HE series of reversible air-to-water split provides heating, cooling and domestic hot water for home. It has higher efficiency and can help users save the operating costs.



Reatures

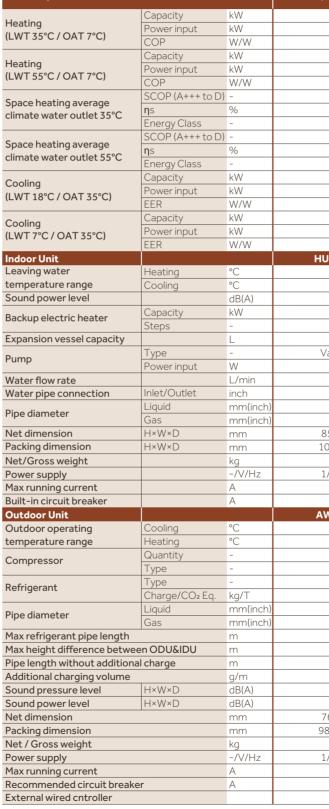


- SCOP at 35°C leaving water temperature up to 5.00
- COP at 35°C leaving water temperature up to 5.02
- 60°C hot water is guaranteed (outdoor temperature >-15°C)
- Wide heating operation range (ambient temperature: -25~35°C)
- Built-in expansion vessel, flow switch, safety vavle for easy installation
- Backup heaters of 1kW and 3kW
- 5-inch colorful controller on the front panel and an optional wired controller
- Max. 8 units connectable into one system for larger capacity demands

Split HE Specification



Efficiency Data



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

 LWT: Leaving water temperature; OAT: Outdoor air temperature.
 Sound level values are measured at a semi-anechoic room. And the sound power level values are based on measurement of EN2102-1 under conditions of EN14825. 4. The above data may be changed without notice for future improvement on quality and performance.

HW-WA101DBT(Optional)



ATW-A02(Optional)

er Aqua HE S 4	Super Aqua HE S 6
4.00	6.00
0.80	1.20
5.02	4.98
4.00	6.00
1.49	2.18
2.69	2.75
5.00	4.80
197	189
A+++	A+++
3.45	3.38
135	132
A++	A++
4.00	6.00
0.85	4.75
4.70	6.00
1.29	1.97
3.10	3.05
JO62WAMNA	HU062WAMNA
15~60	15~60
5~25	5~25
42	42
1+3	1+3
3	3
5	5
ariable speed	Variable speed
75	75
11.5	17
R 1	R 1
6.35 (1/4)	6.35 (1/4)
15.88 (5/8)	15.88 (5/8)
50×480×310	850×480×310
020×580×460	1020×580×460
41/53	41/53 1/220-240/50
/220-240/50 20	20
63	63
N042SSCHA	AW062SSCHA
10~48	10~48
-25~35	-25~35
	1
DC inverter	r twin rotary
	32
1.2/0.81	1.2/0.81
6.35 (1/4)	6.35 (1/4)
15.88 (5/8) 30	15.88 (5/8) 30
20	20
10	10
20	20
44	45
58	61
65×920×372	765×920×372
30×1050×500	980×1050×500
55 / 67	55/67
/220-240/50	1/220-240/50
12.5	13
16	16
	BT (Optional)



Anti-freezing

Split HE Specification



HU102WAMNA



HW-WA101DBT(Optional)

ATW-A02(Optional)

Key Features

Ŕ32

R32

%+++

A+++/A++

±60

Max. 60°C hot water

Climate curve

(0/6

2 zone control

Turbo

Turbo mode

Smart grid

BMS

Modbus . 1 DHW tank solar control

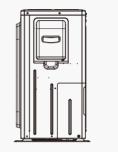
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Pool heating

Efficiency Data			Super Aqua HE S 8	Super Aqua HE S 10
Justing	Capacity	kW	8.00	10.00
Heating LWT 35°C / OAT 7°C)	Power input	kW	1.60	2.17
LWI 35 C/OAT/C)	COP	W/W	5.00	4.60
	Capacity	kW	8.00	10.00
leating	Power input	kW	2.82	3.66
LWT 55°C / OAT 7°C)	COP	W/W	2.84	2.73
	SCOP (A+++ to D) -	4.90	4.85
pace heating average	ns	%	193	191
limate water outlet 35°C	Energy Class	-	A+++	A+++
	SCOP (A+++ to D		3.32	3.30
space heating average		%	130	129
limate water outlet 55°C	ηs France Class	-	A++	A++
	Energy Class			10.00
Cooling	Capacity	kW	8.00	
_WT 18°C / OAT 35°C)	Power input	kW	1.9	2.50
	EER	W/W	4.20	4.00
Cooling	Capacity	kW	8.00	9.00
LWT 7°C / OAT 35°C)	Power input	kW	2.63	3.00
	EER	W/W	3.04	3.00
ndoor Unit			HU102WAMNA	HU102WAMNA
eaving water	Heating	°C	15~60	15~60
emperature range	Cooling	°C	5~25	5~25
ound power level		dB(A)	42	42
	Capacity	kW	1+3	1+3
Backup electric heater	Steps	-	3	3
xpansion vessel capacity		L	5	5
	Туре	-	Variable speed	Variable speed
Pump	Power input	W	75	75
Vater flow rate	i owerinput	L/min	23	28.7
	lplot/Outlat		R 1	R 1
Vater pipe connection	Inlet/Outlet	inch		
Pipe diameter	Liquid	mm(inch)	9.52 (3/8)	9.52 (3/8)
•	Gas	mm(inch)	15.88 (5/8)	15.88 (5/8)
let dimension	H×W×D	mm	850×480×310	850×480×310
Packing dimension	H×W×D	mm	1020×580×460	1020×580×460
Net/Gross weight		kg	43 / 55	43 / 55
ower supply		~/V/Hz	1/220-240/50	1/220-240/50
lax running current		A	20	20
Built-in circuit breaker		A	63	63
Outdoor Unit			AW082SNCHA	AW102SNCHA
Outdoor operating	Cooling	°C	10~48	10~48
emperature range	Heating	°C	-25~35	-25~35
	Quantity	-	1	
Compressor	Type	-	DC inverter	
		-		, and the second s
lefrigerant	Type Charge/CO, Eq.	-	R3 1.6 / 1.08	1.6 / 1.08
	Charge/CO₂ Eq.	kg/T		
Pipe diameter	Liquid	mm(inch)	9.52 (3/8)	9.52 (3/8)
•	Gas	mm(inch)	15.88 (5/8)	15.88 (5/8)
lax refrigerant pipe length		m	50	50
lax height difference betwe		m	30	30
ipe length without addition	al charge	m	10	10
dditional charging volume		g/m	38	38
	H×W×D	dB(A)	49	53
ound pressure level	H×W×D	dB(A)	65	68
		mm	965×950×370	965×950×370
ound power level			1090×1030×480	1090×1030×480
ound power level let dimension		mm		
oound power level Jet dimension Packing dimension		mm ka	76/86	76 / 86
iound power level let dimension Packing dimension let / Gross weight		kg	76/86	76/86
iound pressure level iound power level let dimension Packing dimension let / Gross weight Yower supply		kg ~/V/Hz	1/220-240/50	1/220-240/50
ound power level let dimension acking dimension let / Gross weight ower supply fax running current		kg ~/V/Hz A	1/220-240/50 19	1/220-240/50 22
ound power level let dimension lacking dimension let / Gross weight	er	kg ~/V/Hz	1/220-240/50	1/220-240/50 22 32

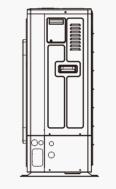
Outline Dimension

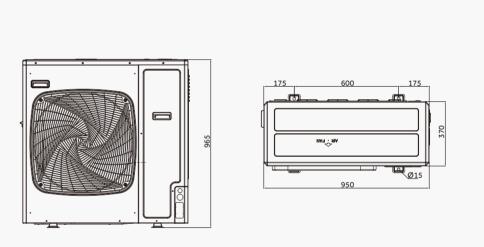
AW042/062SSCHA



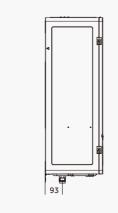


AW082/102SNCHA



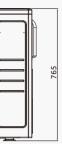


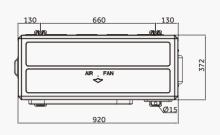
HU062/102WAMNA

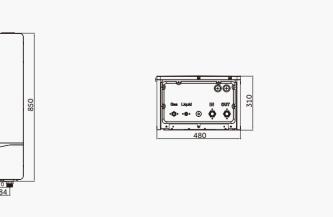




 LWT: Leaving water temperature; OAT: Outdoor air temperature.
 Sound level values are measured at a semi-anechoic room. And the sound power level values are based on measurement of EN2102-1 under conditions of EN14825.
 The above data may be changed without notice for future improvement on quality and performance. Anti-freezing







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