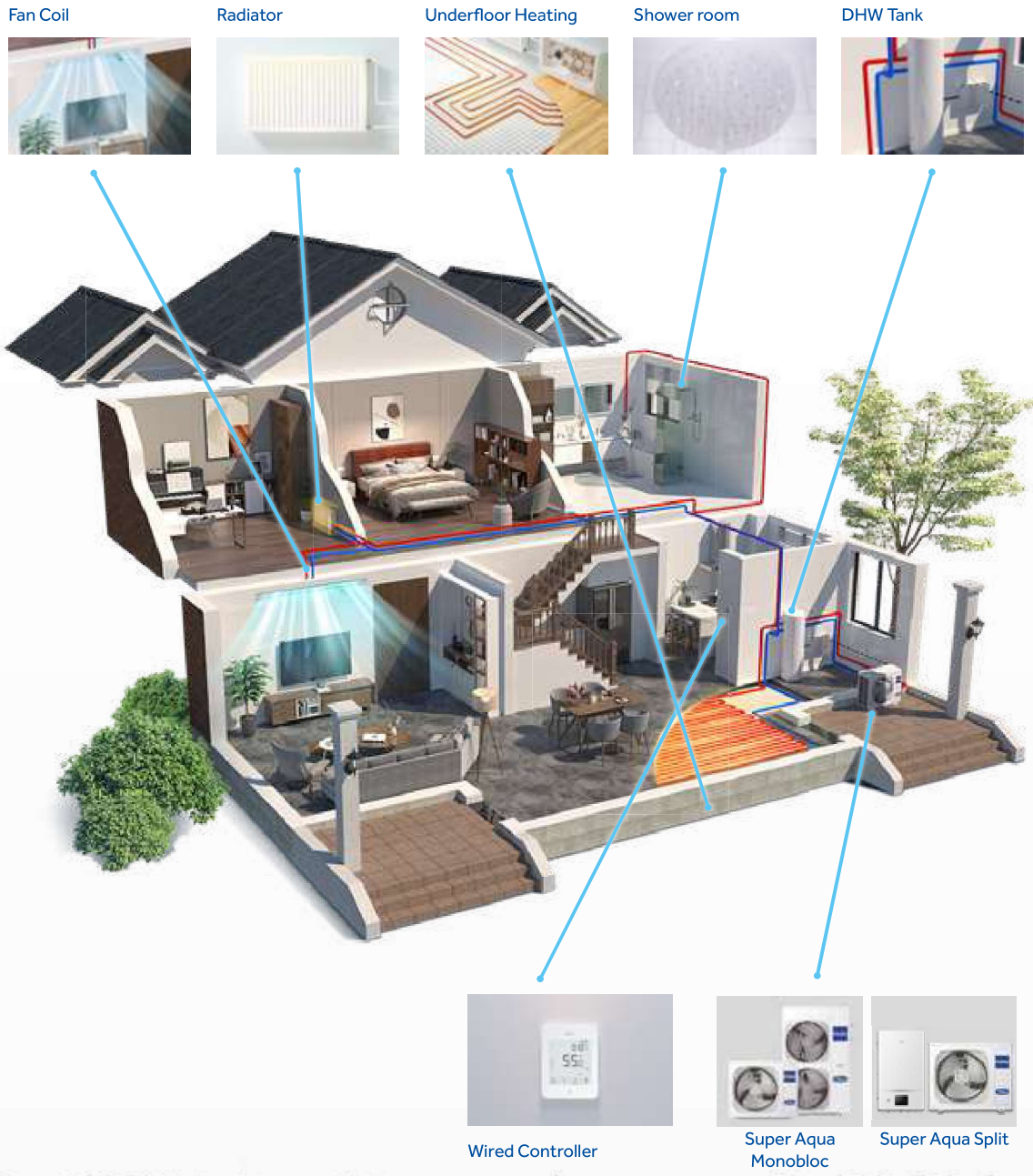
What is a Haier Super Aqua?

The Haier Super Aqua Air to Water Heat Pump uses free renewable energy from the outside air as a heat source for space heating and providing domestic hot water. This energy efficient and environmentally-friendly solution substantially reduces energy consumption, running cost and CO_2 emissions in heating compared to conventional oil and gas boilers.

Hot water supply to support a full range of heat distribution choices



Haier
HVAC Solutions

Super Aqua A2W Heat Pump Monobloc

A2W Heat Pump - Monobloc

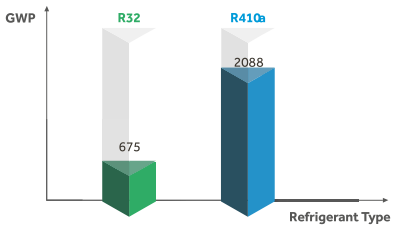
Why Choose the Haier Super Aqua Monobloc

The Monobloc range is ideally suited for install by traditional plumbers as the refrigerant circuit is sealed and the pipework from the outdoor to indoor carries only water.

Environmentally-friendly

The Super Aqua air to water heat pump is an environmentally friendly alternative compared to conventional oil and gas boilers. Our A2W solutions uses the outside air to create free renewable energy which is then used as heat source for space heating and hot water. This provides an energy efficient and environmentally-friendly solution which substantially reduces energy consumption, running cost and CO2 emissions in heating.

Firstly, the R32 refrigerant gas has a lower global warming potential, aproximately a third of the older gas R410A. Secondly, the solutions using R32 gas have a higher efficiency and can reach higher water outlet temperatures.



Complete Comfort

The Super Aqua Monobloc offers an integrated heating solution that guarantees complete 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 round.

Through the terminal box ATW-A01 the production of domestic hot water can be managed with the 3-way valve installed externally to the unit. It's possible to choose the most suitable type of application for each environment and satisfy every need through the combination of the applications in a system.

Wide Application

The Super Aqua Monobloc ranges from 4kW to 16kW, and is suitable for both residential and and small to medium sized commercial applications.

Smaller capacity units can be applied to new build residential buildings with their improved insulation whilst the medium-capacity system can be applied to refurbishments.

Super Aqua's high capacity system is suitable for installation in small to medium sized commercial applications, such as Café's, restaurant, dental practices and hair salons.

Home

Café & Restaurant

Hair Salons

Low sound levels

Compressor

Due to the high efficiency Scroll Inverter driven compressor the Super Aqua operates at a low sound level. Additionally anti-vibration mounts are used for quiet operation and low vibration.

Avial fan

A brushless DC fan motor and aerodynamically optimised impeller are used to reduce noise and vibration reduction.

Pipeline design

The Super Aqua's pipeline is structured and designed effectively to avoid any noise and vibration generation.

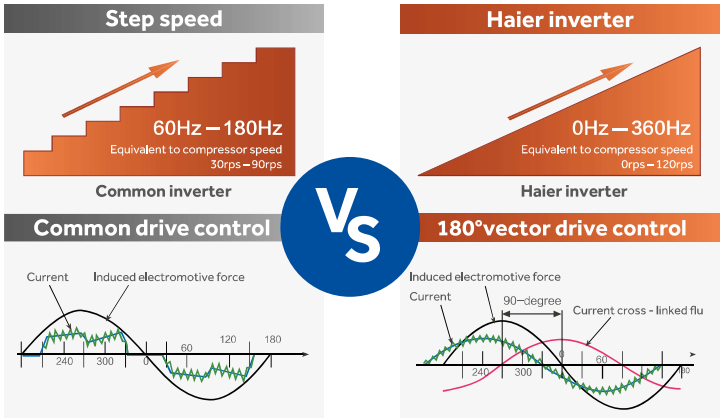
In addition, quiet mode is available for comfortable operation at night.

Energy Saving

Full DC inverter technology

The use of a full DC inverter twin rotary compressor generates energy saving as it has a smaller size and higher efficiency.

The variable frequency stepless speed control motor delivers further energy savings. Additionally the use of a water-cooled canned rotor pump achieves lower sound levels and higher efficiencies.



High Reliability

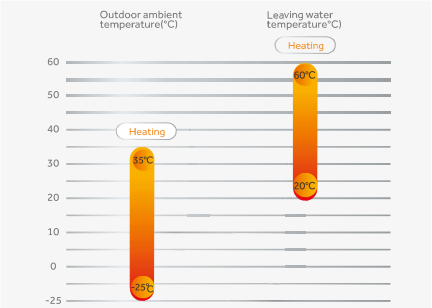
Intelligent anti-freezing technology

Our multi-sensor protection is designed to avoid freezing of the water system. In winter, when the sensor detects that the water temperature is below 3°C, the pump will turn on to prevent the water system from freezing.

The flow switch monitors the water flow and sounds an alarm when it goes below the minimum flow value, ensuring continuous reliability by avoiding any freezing issues.

Wide operation range

Leaving water temperature ranges from 5°C to 60°C providing comfortable cooling and heating for users. 60°C leaving water temperature can be maintained even when outdoor ambient temperature is down to -25°C(5kW unit).



Convenience

Easy control

The controller comes in a modern white finish with touch screen making the device modern, clean and aesthetically pleasing. The backlight and intuitive icons ensures it is simple and easy to use. The built-in weekly timer allows pre-set automatic control and error codes display in case of a fault, as well as a historic log to ensure easier maintenance.

Haier
HVAC Solutions

Specification & Dimensions

Super Aqua Monobloc

AU052FYCRA(HW)

AU082FYCRA(HW)

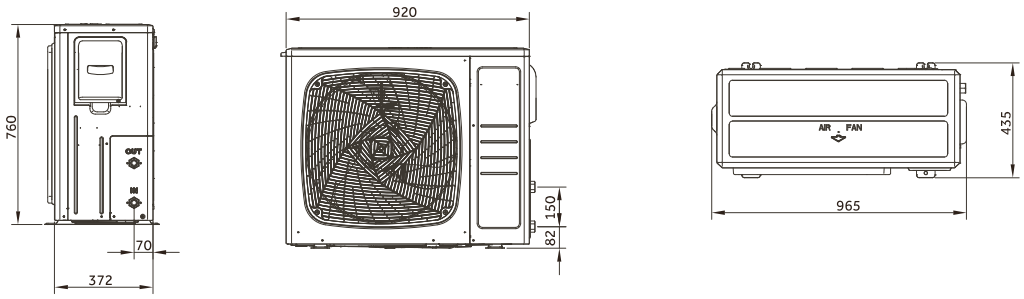
AU112FYCRA(HW)
AU162FYCRA(HW)

Model			AU052FYCRA(HW)	AU082FYCRA(HW)	AU112FYCRA(HW)	AU162FYCRA(HW)
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	5.00	7.80	11.0	16.00
	Power input	kW	0.99	1.77	2.61	3.86
	COP	-	5.05	4.40	4.22	4.15
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	5.00	7.01	9.99	14.01
	Power input	kW	1.64	2.76	4.40	5.63
	COP	-	3.05	2.54	2.27	2.49
Space heating Average climate water outlet 35°C	SCOP	-	4.61	3.87	4.35	4.00
	ns	%	181	152	171	157
	Energy class	-	A+++	A++	A++	A++
Space heating Average climate water outlet 55°C	SCOP	-	3.28	2.90	3.20	3.09
	ns	%	128	113	125	121
	Energy class	-	A++	A+	A++	A+
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	5.00	7.00	13.50	16.00
	Power input	kW	1.00	2.06	2.94	3.64
	EER	-	5.00	3.40	4.60	4.40
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	5.00	5.50	11.50	14.50
	Power input	kW	1.56	2.34	3.83	4.92
	EER	-	3.20	2.35	3.00	2.95
Outdoor operating temperature range	Heating	°C	-25 ~ 35	-20 ~ 35	-20 ~ 35	-20 ~ 35
	Cooling	°C	10 ~ 46	10 ~ 46	10 ~ 46	10 ~ 46
Leaving water temperature range	Heating	°C	25 ~ 60	20 ~ 55	20 ~ 55	20 ~ 55
	Cooling	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20
Water flow rate		L/min	14.30	23.00	31.05	45.80
Water piping connection	Inlet/Outlet	inch	3/4	1	1	1
Compressor	Quantity	-	1			
	Type	-	DC inverter twin rotary			
Refrigerant	Type	-	R32			
	Charge/CO2 Eq.	kg/T	1.05 / 0.709	1.15 / 0.777	2.40 / 1.620	2.60 / 1.755
Net dimension	(WxHxD)	mm	920 × 760 × 372	950 × 965 × 370	950 × 1490 × 370	950 × 1490 × 370
Packing dimension	(WxHxD)	mm	1045 × 890 × 488	1010 × 990 × 458	1010 × 1520 × 458	1010 × 1520 × 458
Net/Gross weight		kg	69/80	87/97	145/157	145/157
Sound power level		dB(A)	59	64	67	68
Power supply		~/V/Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Max. running current		A	13.5	21.3	24.3	31.7
Recommended circuit breaker		A	20	32	32	40
Accessory	Wired controller	/	YR-E27 (Standard)			
	Filter	/	Standard			

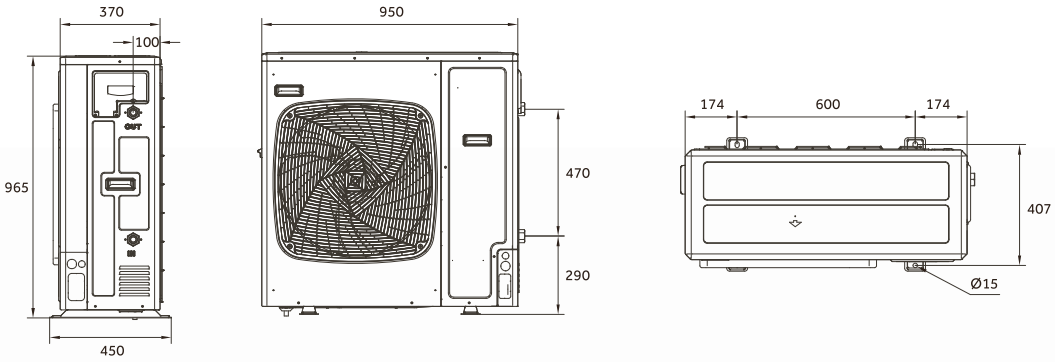
Note:
1. Efficiency data is based on EN14511.
2. LWT: Leaving water temperature; OAT: Outdoor air temperature.
3. Sound level values are measured at a semi-anechoic room. And the sound power level values are based on measurement of EN2012 under conditions of EN14825.
4. The above data may be changed without notice for future improvement on quality and performance.

Outline dimension - Super Aqua Monobloc

AU052FYCRA(HW)



AU082FYCRA(HW)



AU112FYCRA(HW)/AU162FYCRA(HW)