

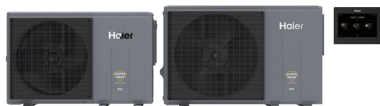
SUPER AQUA HE Monobloc

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.



Features



- 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 valve 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

Super Aqua HE Series Monobloc



AW052MUCHA
AW072MUCHA
AW092MUCHA



AW112MXCHA



HW-WA101DBT
(standard)



ATW-A02(optional)



Model			AW052MUCHA	AW072MUCHA	AW092MUCHA	AW112MXCHA	Key Features
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	5.00	7.00	9.00	11.00	 R32 A+++ / A++
	Power input	kW	0.99	1.40	1.84	2.24	
	COP	W/W	5.06	5.00	4.90	4.90	
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	5.00	7.00	8.50	10.50	 Max. 60°C hot water Climate curve
	Power input	kW	1.69	2.41	3.09	3.50	
	COP	W/W	2.95	2.90	2.75	3.00	
Space heating average climate water outlet 35°C	SCOP	-	4.97	4.95	4.95	4.70	 2 zone control Auto mode Smart grid
	ηs	%	196	195	195	185	
	Energy class	-	A+++	A+++	A+++	A+++	
Space heating average climate water outlet 55°C	SCOP	-	3.52	3.38	3.34	3.40	 BMS Modbus DHW tank solar control Pool heating
	ηs	%	138	132	131	133	
	Energy class	-	A++	A++	A++	A++	
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	5.00	7.00	8.00	10.00	 Anti-freezing
	Power input	kW	1.02	1.44	1.86	2.27	
	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 temperature range	Heating	°C	-25 ~ 35				
	Cooling	°C	10~48				
Leaving water temperature range	Heating	°C	25 ~ 60				
	Cooling	°C	5~25				
Water flow rate	L/min		14.3	20.1	25.8	31.5	
Water piping connection	Inlet/Outlet	inch	R 1	R 1	R 1	R 1	
Compressor	Quantity	-	1				
	Type	-	DC inverter twin rotar				
Refrigerant	Type	-	R32				
	Charge/CO2 Eq.	kg/T	1.3/0.88	1.3/0.88	1.4/0.95	1.8/1.22	
Net dimension	H×W×D	mm	790/1250/380			880/1380/460	
Packing dimension	H×W×D	mm	1022/1395/550			1112/1526/630	
Net/Gross weight	kg		81/109	81/109	85/113	108/148	
Sound power level	dB(A)		60	61	62	63	
Power supply	V~/Hz		220-240/1/50				
Max. running current	A		12	12	16	20	
Recommended circuit breaker	A		16	16	20	25	
Accessory	Wired controller	/					
	PCB box	/	ATW-A02 (Optional)				
	Filter	/	Standard				

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.

Super Aqua HE Series Monobloc



AW142(N)MXCHA
AW162(N)MXCHA



ATW-A02(Optional)



HW-WA101DBT(standard)

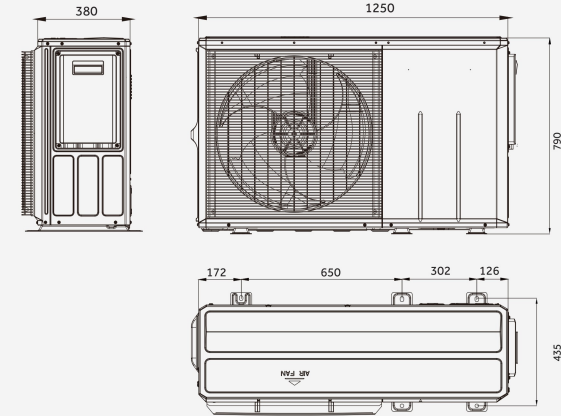


Model			AW142MXCHA	AW162MXCHA	AW11NMXCHA	AW14NMXCHA	AW16NMXCHA	Key Features
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	14.00	16.00	11.00	14.00	16.00	
	Power input	kW	2.95	3.53	2.24	2.95	3.53	
	COP	W/W	4.75	4.53	4.90	4.75	4.53	
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	13.50	15.20	10.50	13.50	15.20	
	Power input	kW	4.82	5.53	3.33	4.82	5.53	
	COP	W/W	2.80	2.75	3.00	2.80	2.75	
Space heating average climate water outlet 35°C	SCOP	-	4.65	4.55	4.70	4.65	4.55	
	ηs	%	183	179	185	183	179	
	Energy class	-	A+++	A+++	A+++	A+++	A+++	
Space heating average climate water outlet 55°C	SCOP	-	3.45	3.40	3.40	3.45	3.40	
	ηs	%	135	133	133	135	133	
	Energy class	-	A++	A++	A++	A++	A++	
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	13.50	15.20	10.00	13.50	15.20	
	Power input	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	
	Power input	kW	4.21	5.28	3.23	4.21	5.28	
	EER	-	2.85	2.65	3.10	2.85	2.65	
Outdoor operating temperature range	Heating	°C	-25 ~ 35					
	Cooling	°C	10~48					
Leaving water temperature range	Heating	°C	25 ~ 60					
	Cooling	°C	5~25					
Water flow rate		L/min	40.1	45.9	31.5	40.1	45.9	
Water piping connection	Inlet/Outlet	inch	R 1	R 1	R 1	R 1	R 1	
Compressor	Quantity	-	1					
	Type	-	DC inverter twin rotar					
Refrigerant	Type	-	R32					
	Charge/CO2 Eq.	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	1112/1526/650					
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		220-240/1/50		380-415/3/50			
Max. running current	A		32	32	10	12	12	
Recommended circuit breaker	A		40	40	16	16	16	
Accessory	Wired controller	/						
	PCB box	/	ATW-A02 (Optional)					
	Filter	/	Standard					

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Dimensions

AW052MUCHA
AW072MUCHA
AW092MUCHA



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

