

Aqua-Silence

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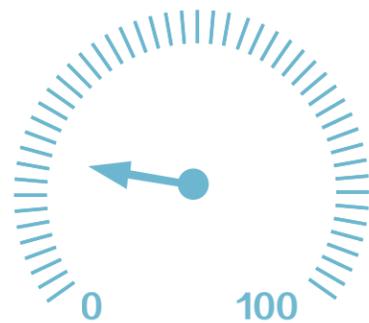
INVERQUARK TECHNOLOGY

Inverquark technology is developed by Aquark Electric Ltd. It is the most silent & energy saving inverter pool heating solution.

■ Back-discharge Design



It adopts patent back-discharge design which eliminates every possible noise to ensure the most silent performance for customer.



■ Full Inverter

It adopts the industry's leading efficient full inverter control system. With smart conversion of compressor, fan motor & pressure system, it provides amazing energy saving performance.

EXTREME SILENCE

Enjoy the peace of mind by Aqua-Silence! Thanks to the patented air stream design technology, the sound level of Aqua-Silence is as low as a fridge.



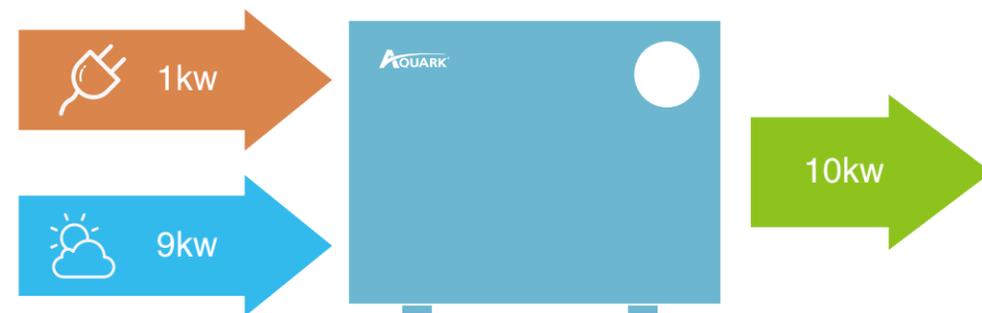
Average-COP 10.7

COP range 15.8-6.9 (air 27 °C / water 27°C)

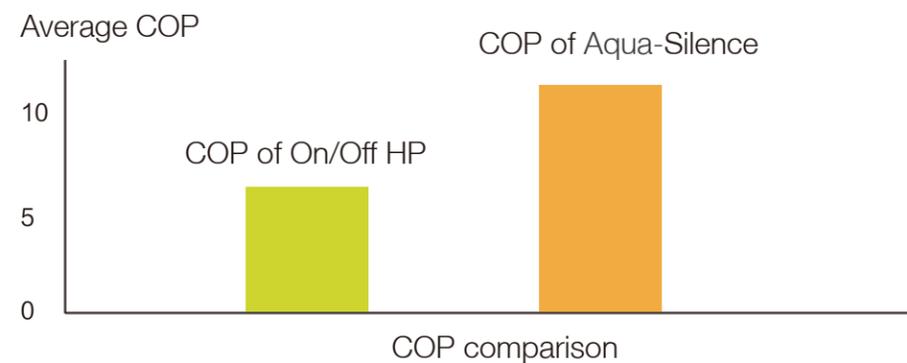
When maintaining pool temperature at 95% of pool season, the heat pump is running by 50% capacity which leads to the best energy saving performance and most silent pool environment.

■ 90% free energy

Thanks to Inverquark technology, Aqua-Silence provides average 90% free energy from ambient air.



■ Double energy saving than on/off hp.



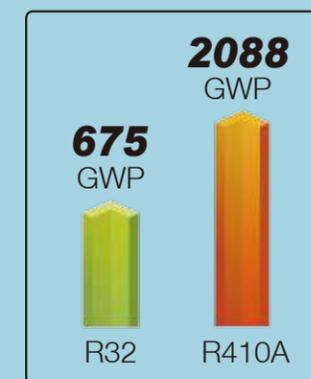
Simple Classic Touch Controller

Aqua-Silence adopts simple touch controller which brings the best user-friendly experience.



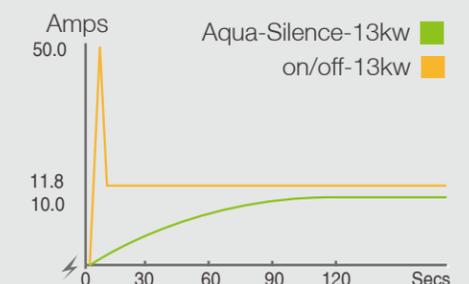
Eco-friendly R32

R32 gas is the next generation refrigerant. 32% GWP comparing to R410A, 25% CO2 carbon consumption, 25% gas quota cost.



Intelligent system protection

The input current will start from 0 Amps to rated Amps steadily. No rush to house electricity system. And Aqua-Silence can adapt to wide voltage from 180~260V and adjusts the system in different condition.



Smart WIFI



Features of Aqua-Silence



DC Twin-Rotary Inverter compressor of Mitsubishi.



EEV technology: 10 times flexibility to adjust the gas flow and increase the COP by up to 20% .



Reverse cycle defrosting with 4-way valve for quick & efficient defrosting



Twisted titanium heat exchanger: 40% higher efficiency than normal titanium heat exchanger.



Designed for down to Air - 10°C Operation.

Model	AS70	AS90	AS110	AS130	AS170	AS210	AS280	AS280S
PERFORMANCE CONDITION:		Air 27°C/ Water 27°C/ Humid. 80%						
Heating capacity (kW)	6.8	9.0	11.0	13.0	17.5	20.8	27.8	27.8
COP Range	14~7.1	14~7.1	14~6.9	14.5~7.0	15.6~6.9	14.6~7.0	15.8~7.2	15.5~7.1
Average COP at 50% Speed	10.4	10.4	10.2	10.4	10.9	10.9	11.0	10.7
PERFORMANCE CONDITION:		Air 15°C/ Water 26°C/ Humid. 70%						
Heating capacity (kW)	4.9	6.5	7.5	8.9	12.3	14.3	18.8	18.8
COP Range	7.2~4.4	7.3~4.7	7.3~4.6	7.5~4.9	7.7~4.9	6.9~4.9	7.8~4.9	7.8~4.9
Average COP at 50% Speed	6.4	6.4	6.5	6.3	6.5	6.5	6.5	6.4
TECHNICAL SPECIFICATIONS								
Advised pool volume (m³) *	15~30	20~45	30~55	35~65	40~80	50~95	60~120	60~120
Operating air temperature (°C)	-10°C ~43°C							
Compressor	Twin-rotary Mitsubishi DC compressor							
Heat exchanger	Twisted Titanium Heat Exchanger							
Power supply	230V 1Ph						400V 3Ph	
Rated input power (kW)	0.14~1.12	0.19~1.38	0.22~1.63	0.26~1.80	0.32~2.51	0.38~2.92	0.5~3.84	0.5~3.84
Input power at 50% Speed (kW)	0.38	0.51	0.58	0.70	0.95	1.10	1.45	1.47
Rated input current (A)	0.63~4.83	0.83~5.98	0.96~7.09	1.13~7.83	1.39~10.9	1.65~12.70	2.17~16.70	0.72~5.56
Maximum input current (A)	7.5	8.5	10	12	15	17	20	7
Power cord (mm²)	3X1.5	3X2.5	3X2.5	3X2.5	3X4	3X4	3X6	5X2.5
Sound level at 1m dB(A)	36.5~46.0	36.8~46.2	36.6~47.9	40.1~48.7	41.1~51.8	38.9~52.2	41.5~52.9	41.5~52.9
Sound level 50% at 1m dB(A)	39.2	39.4	41.3	43.7	44.5	44.4	46.4	47
Sound level at 10m dB(A)	16.5~26.0	16.8~26.1	16.6~27.9	20.1~28.7	21.1~31.8	18.9~32.2	21.5~32.9	21.5~32.9
Advised water flux (m³/h)	2~4	2~4	3~5	4~6	6~8	8~10	10~12	10~12
Water connection (mm)	50							
Net weight (kg)	54	55	57	59	68	74	94	99
Net dimension LxWxH (mm)	890*440*658	890*440*658	890*440*658	890*440*658	1060*440*658	1060*440*758	1060*440*958	1060*440*958
Qty per 20'FT / 40'HQ (sets)	78/174	78/174	78/174	78/174	72/150	48/150	48/100	48/100

Remarks: * The data above is only a reference, for specific data, please refer to the nameplate on the unit.

* Advised pool volume applies to a private pool with isothermal cover, from April to September.

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