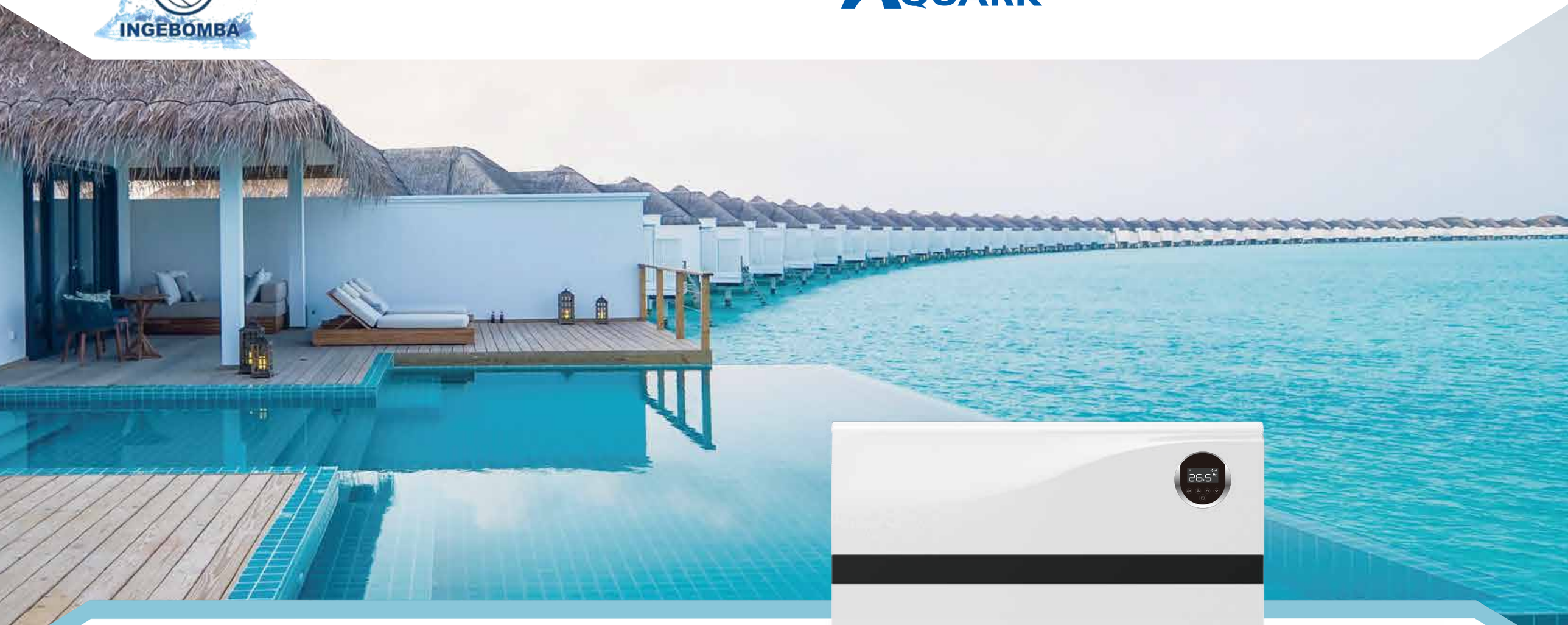
INGEBOMBA

AQUARK®



Aqua-Silence

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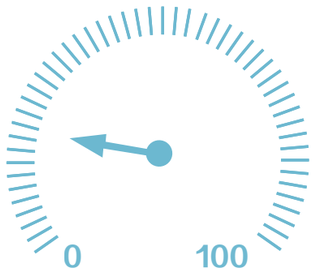
INVERQUARK TECHNOLOGY

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.

- Mitsubishi Twin-Rotary Inverter Compressor
- Unique Air-Stream Design
- DC Brushless Fan Motor

Average Sound Level is 43 dB(A) at 1 meter distance

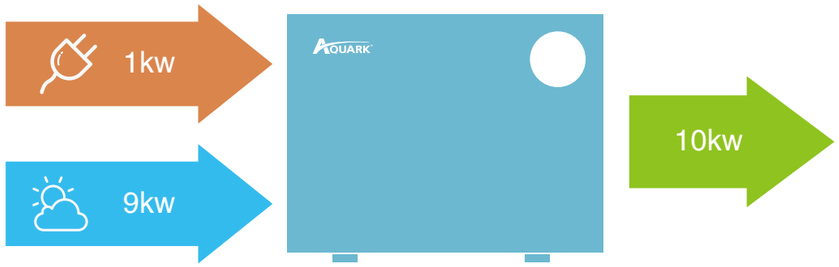
Average-COP 10.7

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

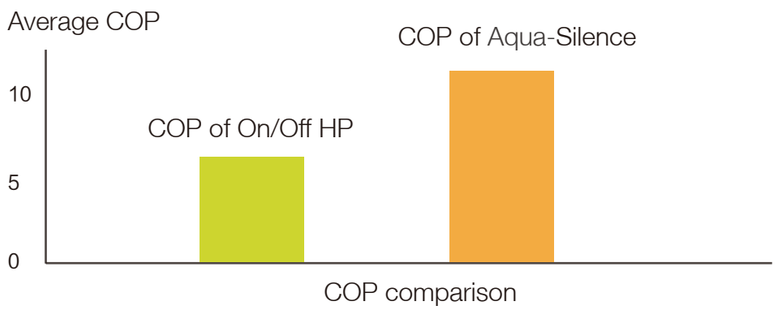
When maintaining pool temperature at 95% of pool season, the heat pump is running by 50% capacity which leads to the best energy saving performance and most silent pool environment.

90% free energy

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

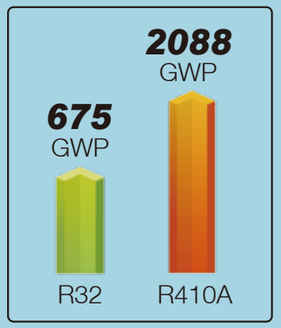


Double energy saving than on/off hp.



Simple Classic Touch Controller

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

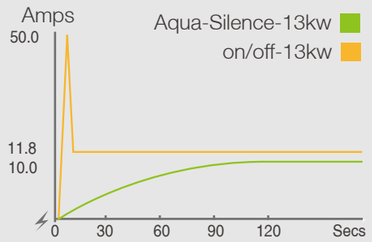


Eco-friendly R32

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.



Features of Aqua-Silence

Mitsubishi DC — DC Twin-Rotary Inverter compressor of Mitsubishi.

EEV — 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.

-10℃ — Designed for down to Air - 10℃ 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 (℃)	-10℃~43℃							
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.