

SIMPLE SILENCE



MR. SILENCE | INVERPAD[®] Tech



www.aquark.com.cn

+86 20 3781 4693

sales@aquark.com.cn

Address: Keyuan Two Road, Gaoli Development Zone, Ronggui, Shunde District, Foshan, P.R.China 528306



25% gas quota of R410a



Average COP 10.7
93% free energy



Quiet as a fridge

SILENCE TO RELAX YOUR MIND
HIGH COP TO SAVE ENERGY COST



INVERPAD TECHNOLOGY

InverPad is the most silent and saving inverter technology in the pool industry. It combines Aquark's unique airflow design that eliminates every possible noise to ensure the most silent performance for customer. The average sound level is 40dB(A) at 1 meter.



Unique Airflow Design



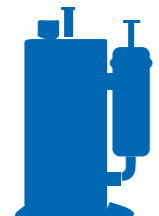
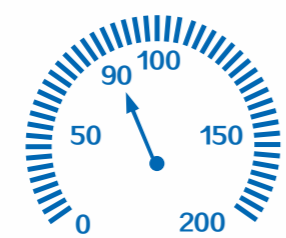

Stepless DC inverter

Moreover, it adopts the industry's leading efficient Stepless DC Inverter control system. With smart conversion of compressor, fan motor and pressure system, it provides amazing energy saving performance with average COP of 10.

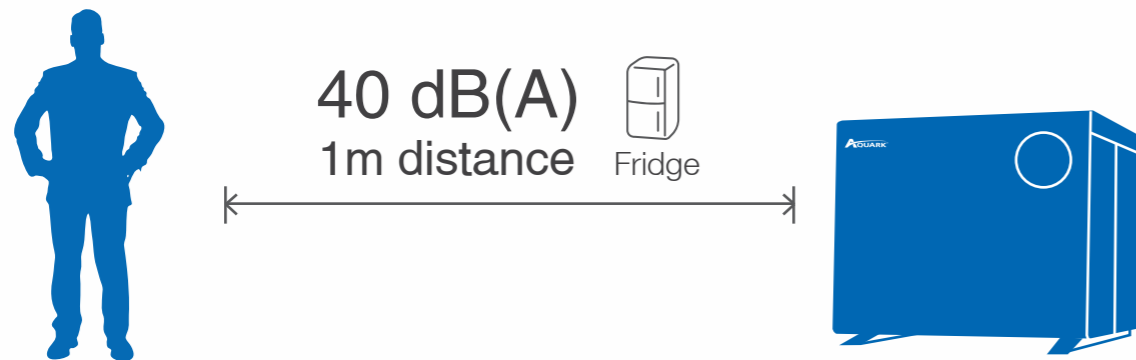


SIMPLE SILENCE

Thanks to the revolutionary airflow design and Stepless DC Inverter system of InverPad technology, the sound level of Mr. Silence is as low as a fridge.

 <p>Mitsubishi Twin-Rotary Inverter Compressor</p>	 <p>Stepless Comfort Speed Conversion</p>	 <p>DC Brushless Fan Motor</p>
--	---	--

12dB(A) lower than traditional On/Off HP.



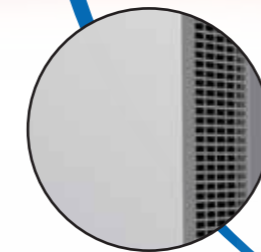
UNIQUE PAD DESIGN INVERTER



Simple Classic Touch Controller



Garden Friendly Pad Design



Classic Anti-Rust Aluminum Alloy



THE LOW CARBON FOOTPRINT REDUCE 93% OF YOUR ENERGY BILL



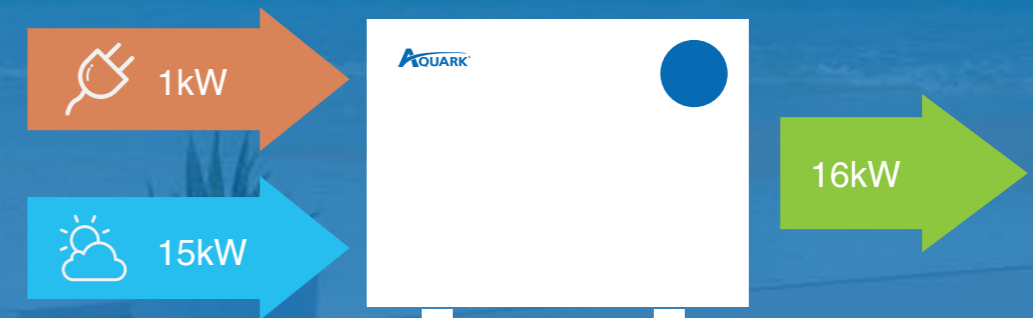
COP up to 16

COP range 16.0 - 7.0 (air 27 °C / water 27°C)

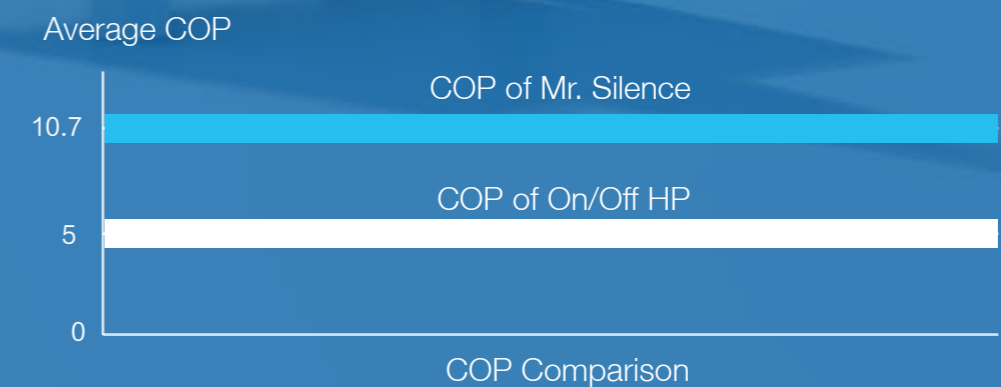
To maintain pool temperature throughout 95% of pool season, Mr. Silence runs at 50% capacity to achieve the best energy saving performance and most silent pool environment.

More than 93% free energy

Thanks to InverPad technology, Mr. Silence provides average 93% free energy from ambient air.

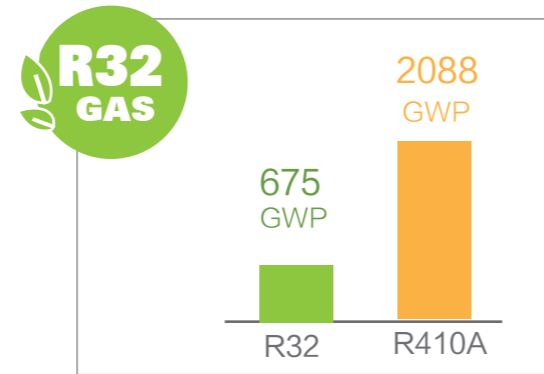


Double energy saving than On/Off HP



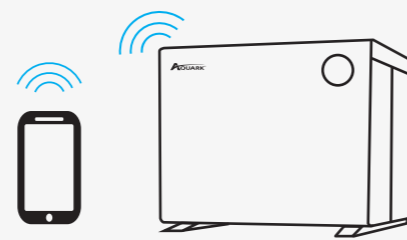
1 Eco-friendly R32

32% GWP comparing to R410A
25% CO2 carbon consumption
25% quota cost.



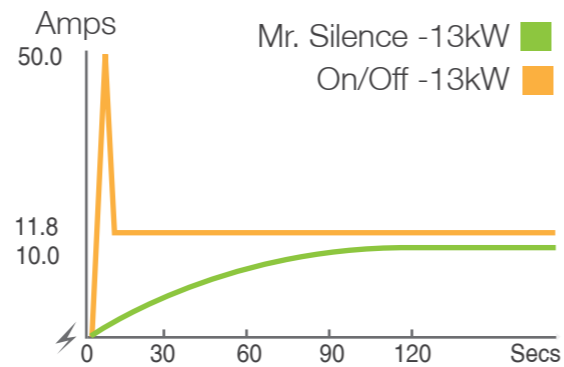
2 Smart Wi-Fi Control

With Mr. Silence's smart app control you can check or control your Mr. Silence anywhere.



3 Full Protection on Electrical System

With a DC inverter compressor, Mr. Silence will start from 0 amps to rated amps steadily. There is no rush to the house electricity system.



4 Wide Voltage Application

Self-adjustment to fit in unstable power supply, therefore voltage range can be 180V ~ 260V.



Mr. Silence provides you a simple, saving and silent warm pool

5

Designed for down to Air -10°C operation
Extend your pool season!

 -10°C



Features of Mr. Silence



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%.



Hot gas defrosting with Saginomiya 4-way valve for quick and efficient defrosting.



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

Model	MS70	MS90	MS110	MS130	MS150	MS170	MS210	MS280	MS210S	MS280S	MS350S	
PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humid. 80%												
Heating capacity (kW)	7.0	9.0	11.0	13.0	15.0	17.5	21.0	28.0	21.0	28.0	35.2	
COP range	14.0~7.2	14.0~7.2	14.0~7.0	14.5~7.0	15.0~7.0	15.6~7.0	14.8~7.1	16.0~7.2	14.8~7.1	15.8~7.1	15.5~7.0	
Average COP at 50% speed	10.5	10.5	10.3	10.5	11.0	11.0	11.0	11.1	11.0	10.8	10.5	
PERFORMANCE CONDITION: Air 15°C/ Water 26°C/ Humid. 70%												
Heating capacity (kW)	5.0	6.6	7.7	9.0	10.5	12.5	14.5	19.0	14.5	19.0	24.2	
COP range	7.3~4.5	7.5~4.8	7.3~4.7	7.5~5.0	7.7~4.9	7.7~5.0	7.1~5.0	8.0~5.0	7.1~5.0	8.0~5.0	7.5~5.0	
Average COP at 50% speed	6.5	6.5	6.6	6.4	6.8	6.6	6.6	6.6	6.6	6.5	6.6	
TECHNICAL SPECIFICATIONS												
Advised pool volume (m ³) *	15~30	20~45	30~55	35~65	40~70	40~80	50~95	60~120	50~95	60~120	85~160	
Operating air temperature (°C)	-10°C ~ 43°C											
Compressor	Twin-rotary Mitsubishi DC Compressor											
Casing	Aluminum-alloy Casing											
Heat exchanger	Twisted Titanium Heat Exchanger											
Power supply	230V 1Ph								400V 3Ph			
Rated input power (kW)	0.14~1.12	0.19~1.38	0.22~1.64	0.26~1.80	0.28~2.15	0.33~2.50	0.38~2.90	0.49~3.80	0.38~2.90	0.49~3.80	0.65~4.84	
Input power at 50% speed (kW)	0.38	0.51	0.58	0.70	0.77	0.95	1.10	1.44	1.10	1.46	1.84	
Rated input current (A)	0.61~4.83	0.83~5.98	0.96~7.13	1.13~7.83	1.22~9.32	1.44~10.90	1.66~12.7	2.15~16.53	0.55~4.20	0.71~5.51	0.95~7.01	
Maximum input current (A)	7.5	8.5	10.0	12.0	13.5	15.0	17.0	20.0	7.0	7.0	10.5	
Power cord (mm ²)	3X1.5	3X2.5	3X2.5	3X2.5	3X2.5	3X4	3X4	3X6	5X2.5	5X2.5	5X2.5	
Sound level at 1m dB(A)	36.5~46.0	36.8~46.2	36.6~47.9	40.1~48.7	39.3~52.0	41.1~51.8	38.9~52.2	41.5~52.9	38.9~52.2	41.5~52.9	40.6~52.6	
Sound level 50% at 1m dB(A)	39.2	39.4	41.3	43.7	44.0	44.5	44.4	46.4	44.4	47.0	46.1	
Sound level at 10m dB(A)	16.5~26.0	16.8~26.1	16.6~27.9	20.1~28.7	19.3~32.0	21.1~31.8	18.9~32.2	21.5~32.9	18.9~32.2	21.5~32.9	20.6~32.6	
Advised water flux (m ³ /h)	2~4	2~4	3~5	4~6	5~7	6~8	8~10	10~12	8~10	10~12	12~18	
Water connection (mm)	50											
Net dimension LxWxH (mm)	890*430*657	890*430*657	890*430*657	890*430*657	970*430*657	1060*430*657	1060*430*757	1060*430*957	1060*430*757	1060*430*957	1314*512*957	
Net Weight (kg)	52	53	55	57	61	66	72	91	83	96	135	
Qty per 20'FT/40'HQ (sets)	78/177	78/177	78/177	78/177	75/162	72/150	48/150	48/100	48/150	48/100	32/64	

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.