

# SIMPLE SILENCE

Stepless Inverter Simple Silence Patent Design



Listen, just my breathing

Mr. Silence



# Patent design

- Simple Classic Touch Controller

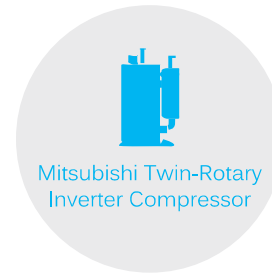


- 1st Slab Surface Design
- Aluminum-Alloy Casing

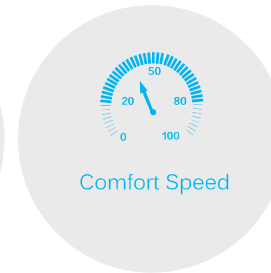


# Simple silence

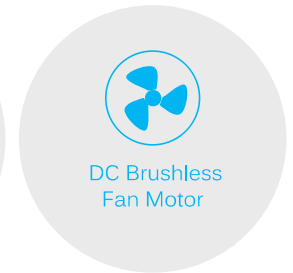
Thanks to the revolutionary air-stream design & stepless DC inverter system of Inverquark technology, the sound level of Mr. Silence is as low as a fridge, 12dB(A) lower than traditional On/Off heat pump.



Mitsubishi Twin-Rotary Inverter Compressor



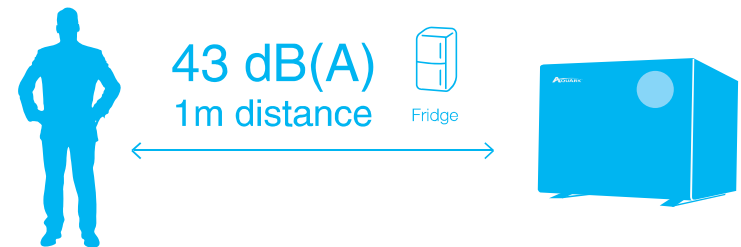
Comfort Speed



DC Brushless Fan Motor

12dB(A) lower than On/Off heat pump

Sound Pressure is 43dB(A) at 1 meter in front of Mr. Silence



# COP up to 15

COP range 15 -6.4 (Air 27 C / Water 27 C / Humidity 80%)

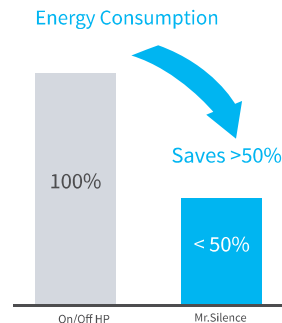
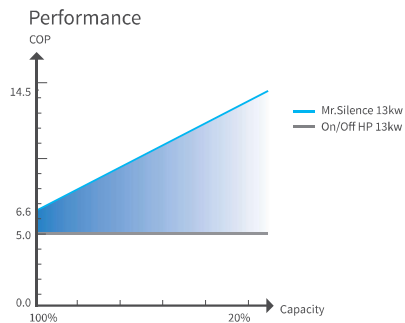
## 93% free energy

Thanks to inverter technology, 1kw input brings up to 15kw output.



## More than double energy saving

When maintaining pool temperature in most of pool season, Mr. Silence is running by low speed which leads to the best energy saving performance and most silent pool environment. It's more than double energy saving compared with traditional On/Off heat pump.

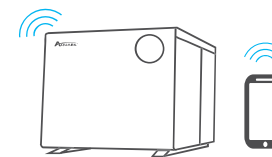
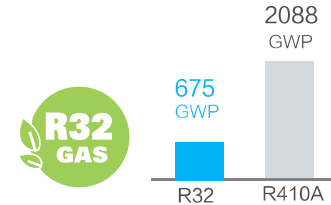


# Other Advantages

## Eco-friendly R32

(R410A Optional)

32% GWP  
25% CO2  
25% quota cost

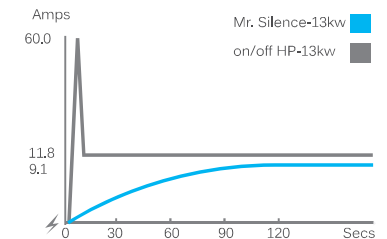


## Smart WIFI control (Optional)

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

## Full protection on electrical system

By DC inverter compressor and DC ventilator, Mr. Silence will start from 0 Amps to rated Amps steadily. There is no rush to the house electricity system.



## Wide voltage application

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

# Features of Mr.Silence



**Mitsubishi inverter compressor**  
DC Twin-Rotary Inverter compressor of Mitsubishi.



**R32/R410A gas**  
Mr.Silence can be applied with R32 or R410A gas.



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



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



**Hot gas defrosting**  
With Saginomiya 4-way valve for quick & efficient deforesting.



**-10 C ~ 43 C**  
Designed for down to Air -10 C operation.



# Parameters of Mr. Silence

Model	MS70	MS90	MS110	MS130	MS150	MS170	MS210	MS260	MS260S
<b>PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humid, 80%</b>									
Heating capacity (kW)	7.0	9.0	11.0	13.0	15.0	17.0	21.0	26.0	26.0
COP Range	14.0~6.6	14.0~6.6	14.0~6.4	14.5~6.6	15.0~6.6	15.0~6.5	14.8~6.4	15.0~6.5	15.0~6.8
Average COP at 50% Speed	10,2	10,0	10,1	10,3	10,6	10,2	10,3	10,3	10,3
<b>PERFORMANCE CONDITION: Air 15°C/ Water 26°C/ Humid, 70%</b>									
Heating capacity (kW)	5.0	6.3	7.7	9.0	10.5	11.5	14.5	17.0	17.0
COP Range	7.3~4.4	7.0~4.4	7.5~4.5	7.5~4.5	7.7~4.6	7.8~4.6	7.1~4.6	7.5~4.6	7.5~4.6
Average COP at 50% Speed	6.3	6.2	6.3	6.3	6.4	6.2	6.3	6.3	6.3
<b>TECHNICAL SPECIFICATIONS</b>									
Advised pool volume (m3) *	15~30	20~45	30~55	35~65	40~70	40~80	50~95	60~120	60~120
Operating air temperature (C)	-10 C ~ 43 C								
Compressor	Twin-rotary Mitsubishi DC compressor								
Casing	Aluminum Alloy casing and Inner Metal Frame								
Heat exchanger	Twisted Titanium Heat Exchanger								
Power supply	230V 1Ph								400V 3Ph
Rated input power (kW)	0.14~1.14	0.19~1.43	0.21~1.71	0.25~2.0	0.29~2.28	0.29~2.5	0.41~3.15	0.51~3.7	0.51~3.7
Input power at 50% Speed (kW)	0.4	0.51	0.61	0.71	0.82	0.93	1.15	1.35	1.35
Rated input current (A)	0.62~5.17	0.84~6.51	0.97~7.78	1.15~9.09	1.30~10.38	1.34~11.36	1.86~14.33	2.3~16.8	0.73~5.33
Maximum input current (A)	6.5	8.3	11.7	12.5	14.5	15.7	19.5	23.6	7.86
Power cord (mm²)	3x1.5	3x1.5	3x2.5	3x2.5	3x2.5	3x2.5	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	39.3~52	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	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	19.3~32	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	5~7	6~8	8~10	10~12	10~12
Water connection (mm)	50								
Net weight (kg)	42	47	49	52	55	60	68	78	78

Remarks:

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

\* The data above is only for reference. For specific data, please refer to the nameplate on the unit.