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Silent Brand New SILENZO Air Conditioner Stable

- Low noise for undisturbed dreams
- Low vibration for peace of mind
- High efficiency without wasting electricity

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Global Per Capita AC Ownership Changes

Concern about AC Noise from IU & OU

More than **70%** of consumers

*Report Issued by China Home Appliance Association

China Acoustic Environmental Quality Standard

55dB / 45dB

Noise limit (day/night)

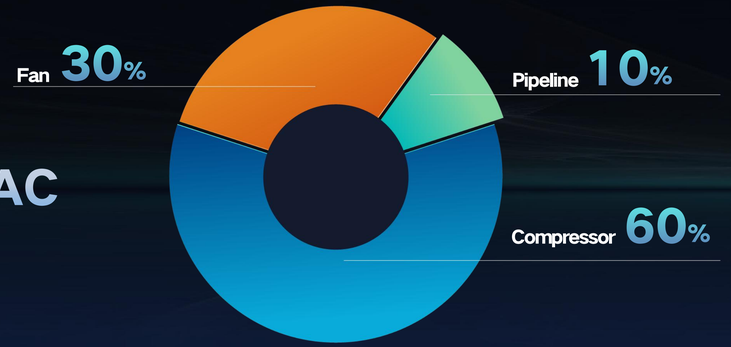
The Environmental Law of the Czech Republic

Zákon č. 201/2012 Sb., o ochraně životního prostředí

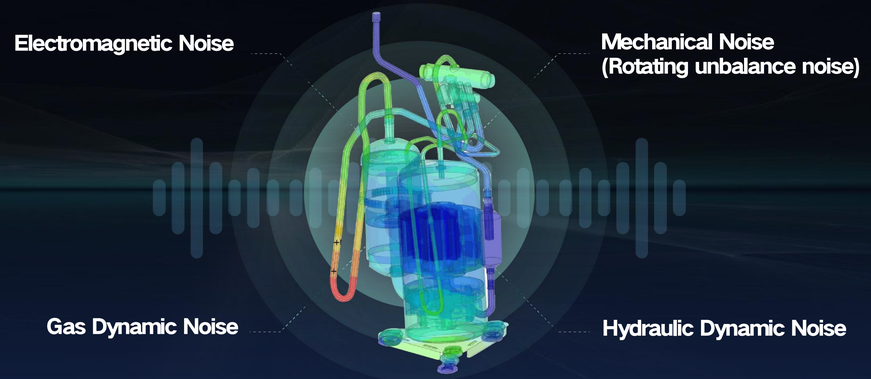
55dB / 45dB

Noise limit (day/night)

Compressor
Main Noise Source of AC



ODU noise ratio analysis of AC



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Compressor
Main Vibration Source of AC

Resonant Humming

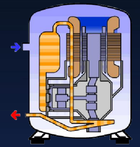
Sheet Metal Part Rattle Sound

Vibration and Unusual Noise Transmission of Wooden Walls

Three major types of compressors for refrigeration

1876

The first ammonia vapor compression Refrigeration System.



Reciprocating compressor

1950

Rotary compressors for air conditioners have become mainstream.

Rotary compressor

1981

Commercial application of scroll compressors for air conditioners.

Scroll compressor

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QUESTION

What will the next generation of compressors be like?

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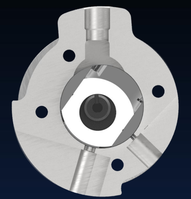
Industry First G-QuietuX Compressor

9 Years

Independent intellectual property rights
Self-developed new double-speed rotary quad-cylinder compressor G-QuietuX

137

Invention patents



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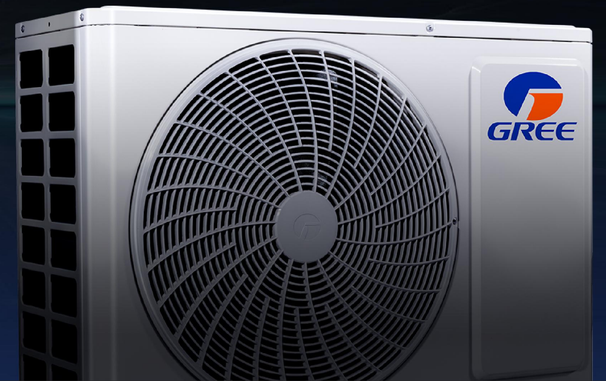
Brand New SILENZO AC

Ultra Quiet

Low Vibration

Gas-liquid Actuated Refrigeration

Energy-saving



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Silent

Ultra Quiet

Stable

Symmetric Design

Suppresses Noise Caused by Rotational Imbalance

Motor Rotor Structure Comparison

Asymmetric Structure of Rotary Compressor

Symmetric Structure of Double-Speed Rotary Quad-Cylinder Compressor

Slipper-less Structure

Suppresses Tapping Noise of Low-frequency Valve Plate

Low-frequency Operation Comparison

Diagram of Slipper
Detachment in Rotor Compressor

Double-Speed Rotary Quad-Cylinder
Compressor

Tankless Structure

Eliminates Harmonic Excitation Noise

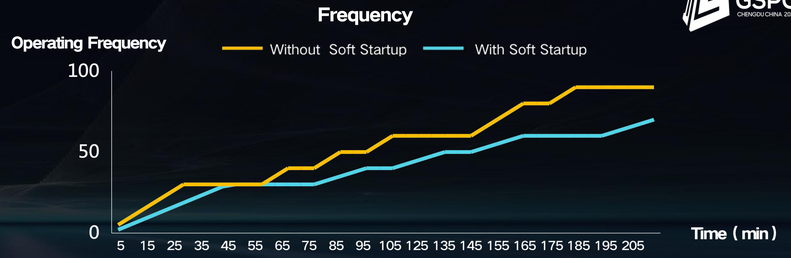
Compressor Structure Comparison

Structure of
Rotary Compressor

Structure of Double-Speed Rotary
Quad-Cylinder Compressor

Innovative Linked Control Solution

Reduce Fan Noise During the Entire Operation Process



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29 dB(A)

Minimum Noise Level of ODU

15 dB(A)

Minimum Noise Level of IDU

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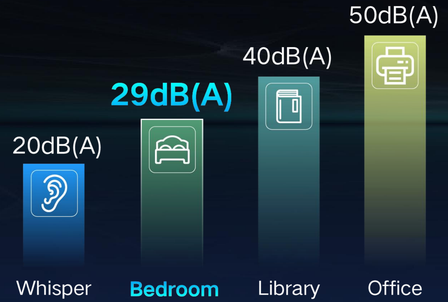
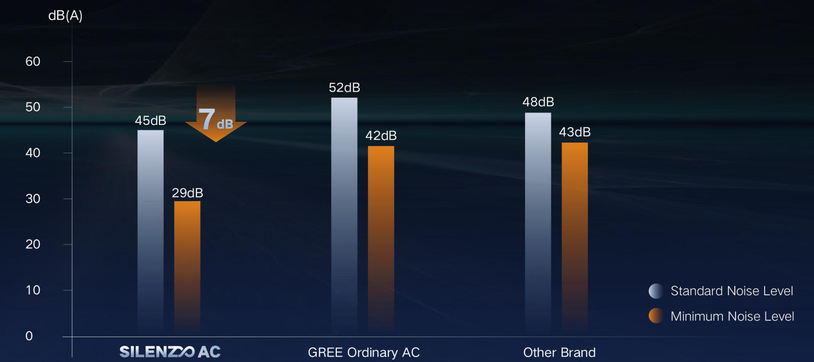
Brand New SILENZO AC

Min. 29dB(A) ODU





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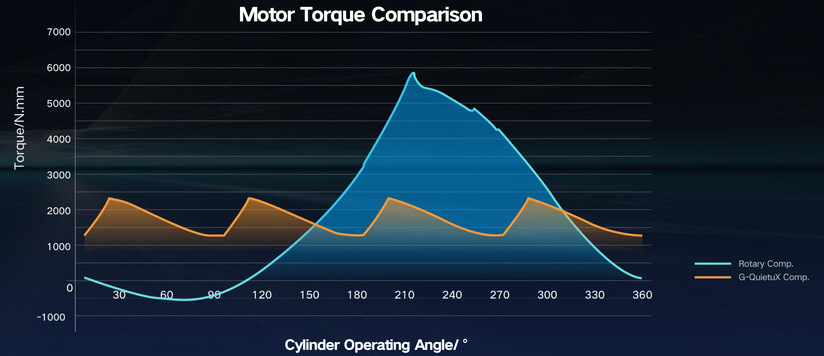
Silent

Low Vibration

Stable

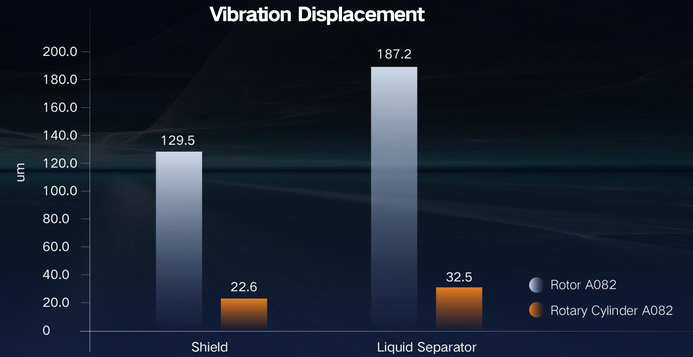
Single-cylinder four-stage compression structure

The torque fluctuation is 1/6 that of a rotary compressor



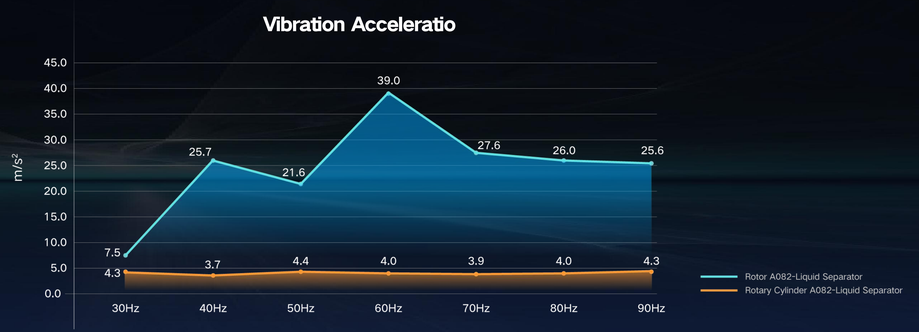
Symmetrical structure

Vibration displacement is 1/6 of that in a rotary compressor



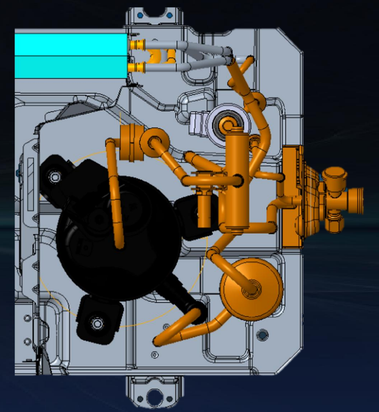
Symmetrical structure

Vibration acceleration is 1/10 of that in a rotary compressor



Looped Pipeline Design

Effectively Eliminate Pipeline Resonance



Looped Pipeline

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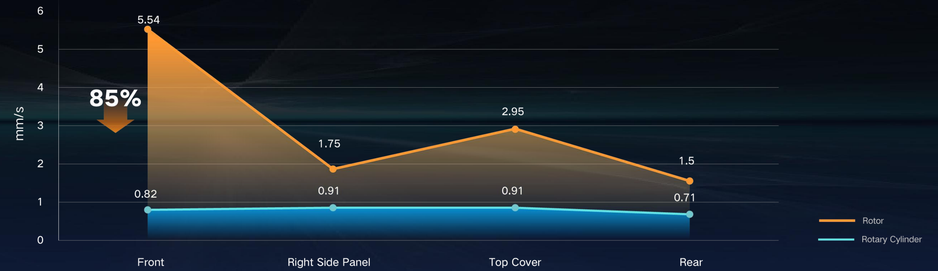
Brand New

SILENZO AC

4.72 mm/s
Reduction in Housing Vibration

85%
Reduction in Housing Vibration



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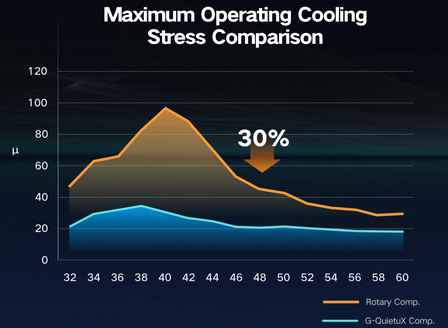
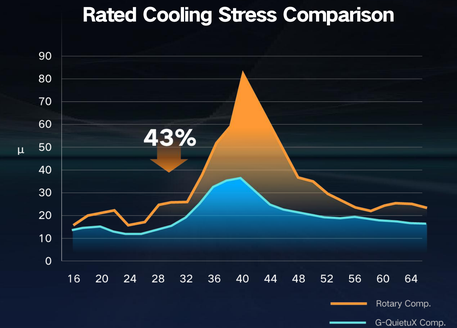
Brand New

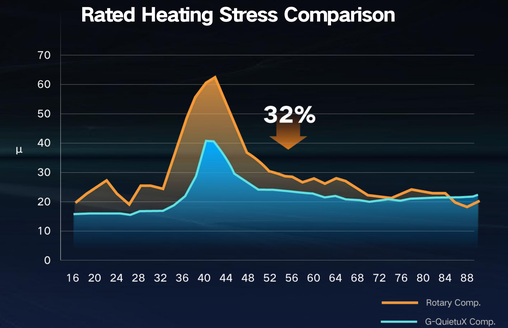
SILENZO AC

43%

Reduction of Pipeline Stress and Strain Values Across the Full Frequency Range







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Silent Stable

Gas-liquid Actuated Refrigeration

Air Pump Mode

Transport Outside Low-temperature Refrigerant to the Inside

G-QuietuX Compressor

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Gas-liquid Actuated Refrigeration

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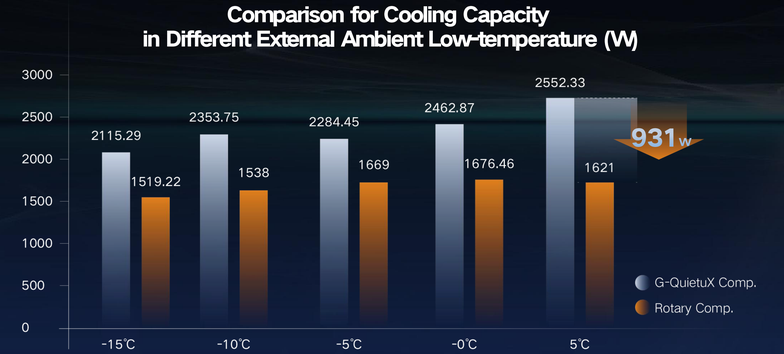
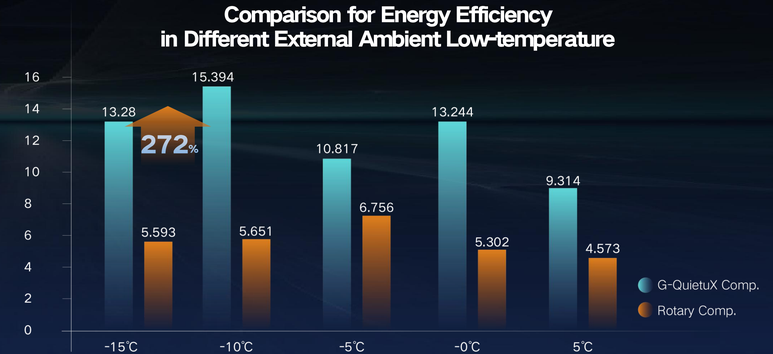
Low-temperature Energy Efficiency 272%





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Close Control AC

-42℃ Ultra-low Temperature Cooling

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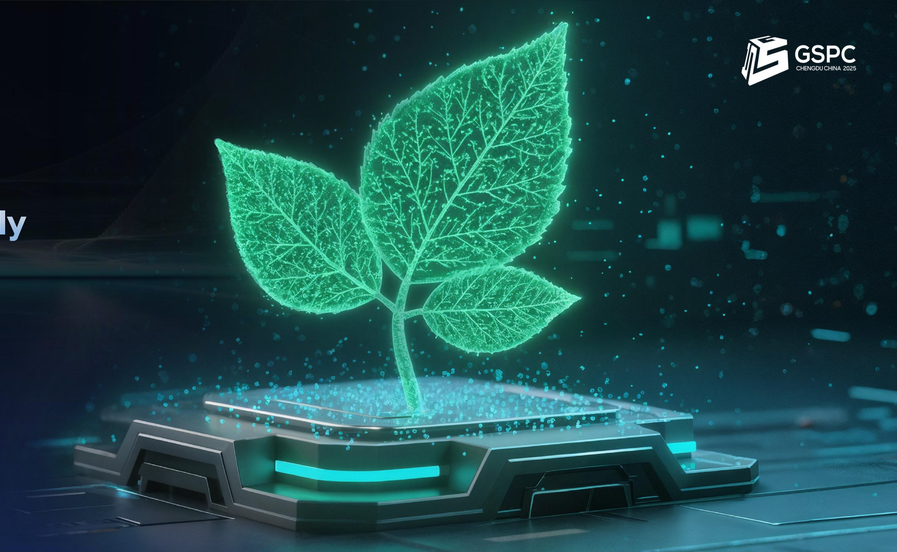
Brand New

SILENZO AC
Low-temperature Cooling

Single unit saves **1,598** kWh annually

Reducing energy consumption by **15**%



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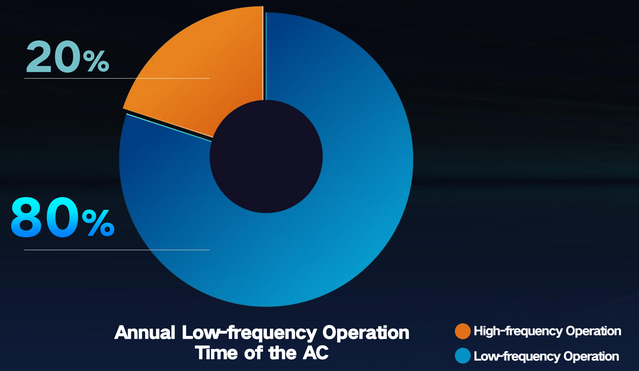
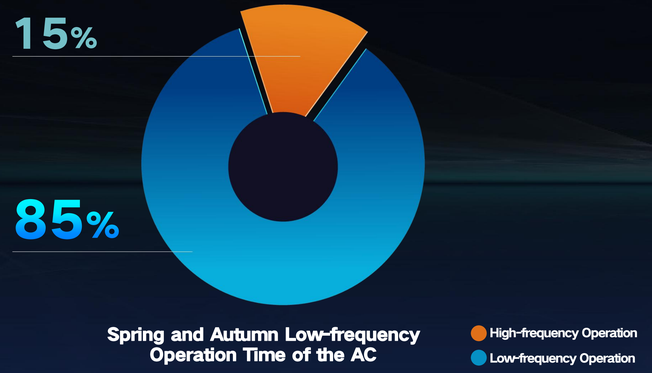
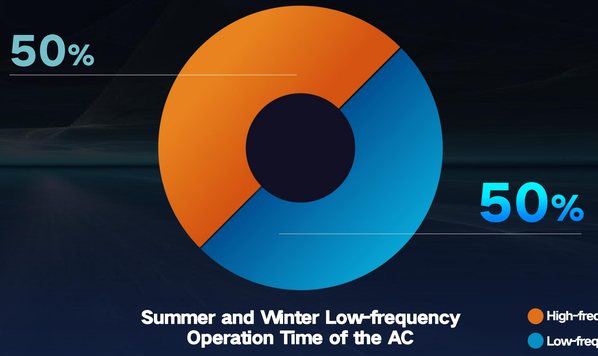
Silent Energy-saving Stable



Annual Low-frequency Operation Time of the AC



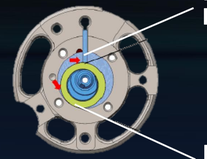
Spring and Autumn Low-frequency Operation Time of the AC



Summer and Winter Low-frequency Operation Time of the AC

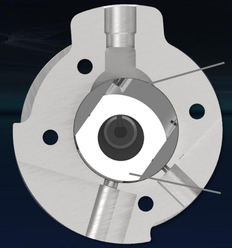
Rotary Comp.

7 Leakage Paths Line Sealing



Roller-Vane
Line Sealing

Roller-Cylinder
Line Sealin



Cylinder-Piston
Surface Sealing

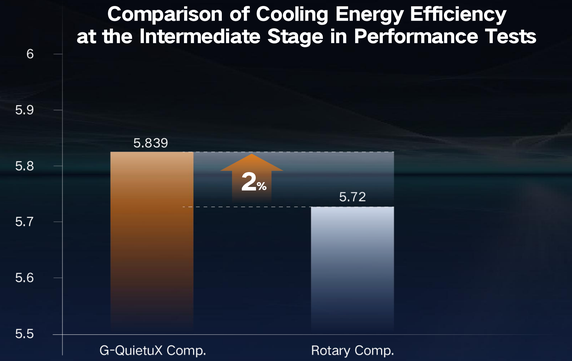
Cylinder-Liner
Surface Sealing

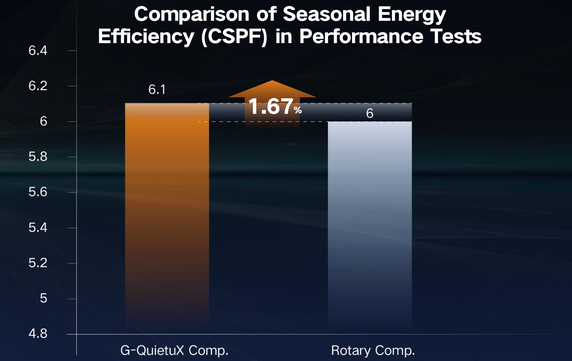
G-QuietuX Comp.

2 Leakage Paths Surface Sealing

Reduction in Leakage Paths

Enhancing Energy Efficiency at the Intermediate Point





Vaneless Structure

Low-frequency Performance Without Degradation

Low-frequency Operation Comparison

Diagram of Slipper Detachment in Rotor Compressor

Double-Speed Rotary Quad-Cylinder Compressor

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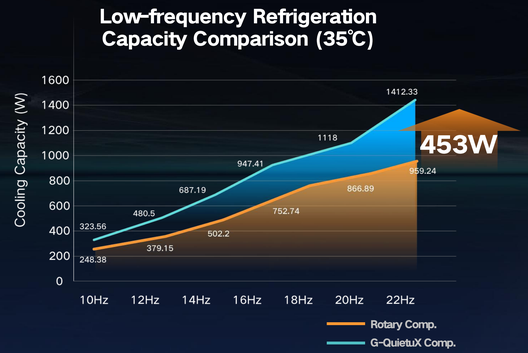
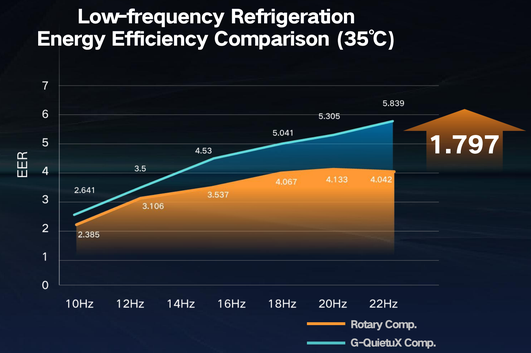
Low-frequency Refrigeration

Performance Comparison (35℃)





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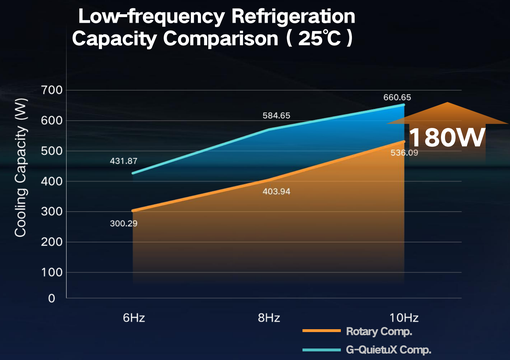
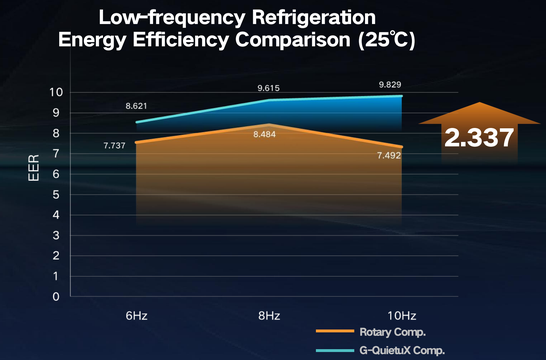
Low-frequency Refrigeration

Performance Comparison (25℃)



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Brand New SILENZO AC
Annual Energy Consumption Decreased by 14 %

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Brand New SILENZO Split AC

Ultra Quiet
Minimum 29dB ODU & 15dB IDU

Low Vibration
85% Reduction

Gas-liquid Actuated Refrigeration
272% Improvement in Energy Efficiency

Energy-saving
Save 15% Energy Annually

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Made in China, Loved by the World

让世界爱上中国造 10 2015-2025

THE 5TH GREE GLOBAL STRATEGIC PARTNERS CONFERENCE

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Oct. 20-23, 2025 | 2025年10月20-23日

Chengdu, China | 中国•成都

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THANK YOU