

Art of Silence

Sunon “Super Silence” Fan Introduces a New Concept to Hearing

Technology is fast becoming indispensable through its ability to enhance the quality of our lives. In addition to the design, color and variety of raw materials, the sounds generated by the operation of equipment can have a profound influence on users' attitude about a product by creating an impression at the subconscious level. The Sunon “Super Silence” Fan takes the customers' feelings into special consideration. The rotating bearings, the wind from its fan blades, and the air flow from the system have all been carefully adjusted to ensure that Sunon “Super Silence” Fans are stable and quiet. Our primary concern is to create a comforting audio environment.

- **SUNON Sound Quality System Leads to a New Experience of Quietude**

Over the years, engineers have evaluated the noise of fans by measuring sound pressure and sound power. These engineers generally agree that cooling fans with lower dB(A) have higher sound quality. Since Sunon adopted a sound quality system in 2000, it has endeavored to strike an optimal balance between different sound quality parameters such as loudness, tonality, roughness, fluctuation, and sharpness. Sunon's perseverance in pursuing the best noise quality is demonstrated by its continuous effort in technological research and development. The Sunon “Super Silence” Fan Series, which provides excellent sound quality, is the fruit of seven years of practical experience.

Sound quality systems were initially adopted by international automakers to conduct research on the response of the human ear to certain sounds. For instance, in order to create a sense of security, they adjusted the sound that is generated when a car door comes into contact with its chassis. Through the combination of a Head Measurement System (HMS) from Germany's Head Acoustics Company and 24-bit digital processing technology, the audio effects on human ears can be recorded and imitated. Data such as sound, vibration, speed, and electrical signals can be collected so that we can achieve an optimal balance between frequency, loudness, sharpness, and other objective parameters. Furthermore, by conducting in-depth analysis of parameters such as time-domain, frequency and psychological acoustics, Sunon's sound quality has greatly improved. This sound quality system creates a silent, comfortable, and undisturbed environment, which results in optimal acoustic performance of a rotating fan.

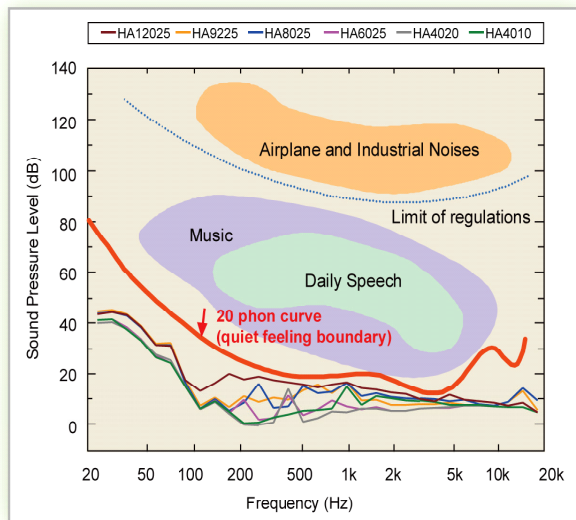
- **Sunon Micro-Motor Technology**

To ensure the consistently high performance of the Sunon “Super Silence” Fan, its design is consistent

with micro-motor technology. The surface area of the fan blades has been enlarged and the space between the fans and air-flow channels has been maximized. As a result, the fan has excellent cooling effects and near-silent sound quality. To provide customers products in the R & D stage, the reference design is more flexible. With low voltage characteristic, this series is designed for a wide range of uses. The overall flow of heat current is nearly perfect.

● Super Silence

Sunon's "Super Silence" fan series was tested with standard digital home equipment located one meter away from the user. Based upon "ISO 532B hearing sensation" and charts on human auditory reactions that were plotted for different decibel and frequency levels, the threshold noise level for Sunon's Super Silence series' is below 20 phon, the minimum level that is discernible in daily living.



To provide clients with the most flexible design solutions, Sunon has combined the business units of precision motors, cooling fans and cooling modules, added the full support of our strong R&D teams, and integrated the service and sales departments with the production and logistics departments. This allows Sunon to provide our clients with the innovations needed to help them develop their new-generation products. In turn, this allows our clients to experience firsthand the true meaning of the "Brand Name, Innovation, and Value" philosophy behind Sunon and to realize the ideal of "peace of mind through Sunon," "realizing system miniaturization and ease of use through Sunon," and "the future and hope of society through Sunon" become realized.