

SUNON®

**Sunon DR MagLev
Motor Fan
(DR=Dust-Resistance)**



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Advantages of DR MagLev

DR MagLev motor fan

[DR MagLev = Dust-Resistance MagLev]

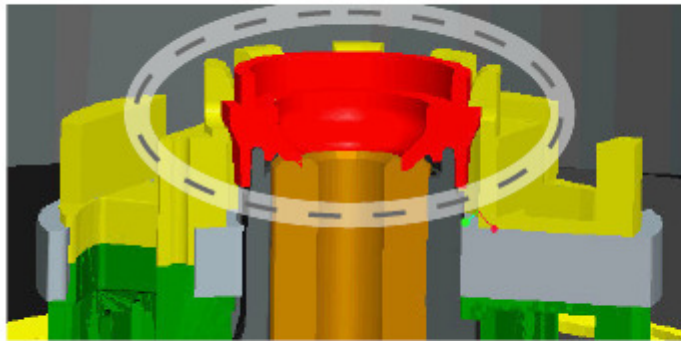


Superiority

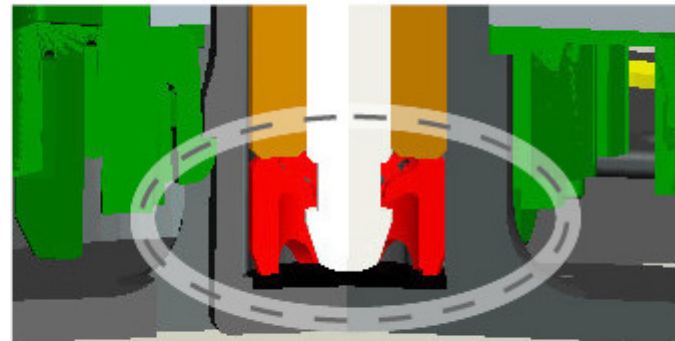
Sunon DR Maglev (Dust-Resistance MagLev) Motor Fan uses the MagLev technology with new design features of dust-resistance and S&C (seal & clip).

After 8 years of development and testing, Sunon's DR MagLev Motor Fan is being introduced with the advantages of prevents the stator and impeller from moving, better dust-resistance, higher reliability, and longer life expectancy.

SUNON Innovative S&C Design



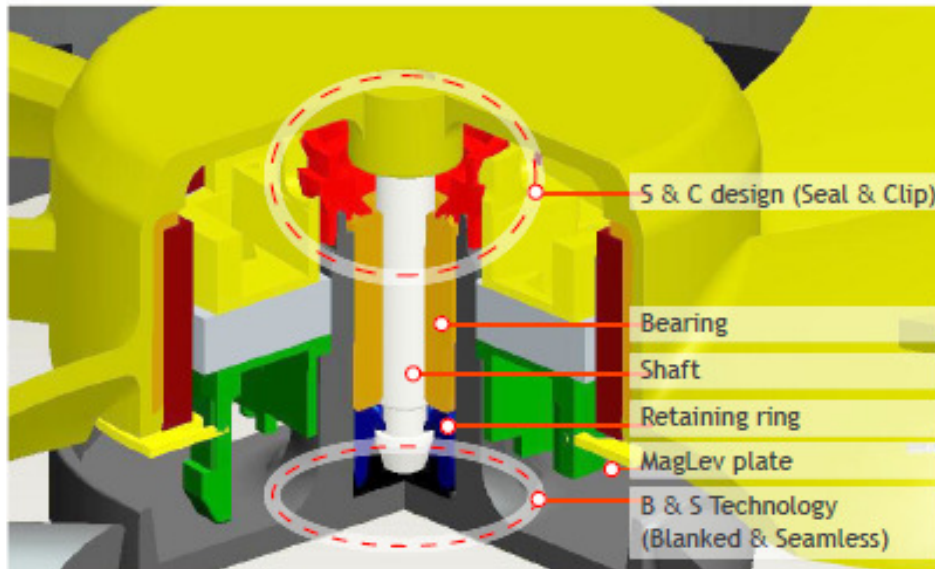
This design concept can solve the moving problem of the motor's components, provide better dust-resistance.



It can avoid the impeller from moving and better sealed bearing system.

Advantages of DR MagLev

Design Concepts and Characteristics of DR MagLev



The two innovative design concepts of DR MagLev development are B&S (Blanked & Seamless) Technology and S&C (Seal & Clip) Design.

These innovative designs bring dual excellent efficiencies to extend fan life:

1. To avoid dust invasion and extend motor life.
2. To prevent the motor components from falling off.

(Note: The design concepts of DR MagLev Motor are suitable for every kind of motor and product size. The structures are different from the above picture, which was made when the DR MagLev design was applied to different motors.)

Characteristic 1
The innovative S&C Design provides the best resistance to dust invasion.

Characteristic 2
DR MagLev's one-piece structure with the B&S Technology and S&C Design provides the better sealed bearing system.

Characteristic 3
The S&C Design strengthens the locked position of both motor and stator to avoid stator and impellor from moving due to temperature changes. This allows the product to be more stable and run longer.

Advantages of DR MagLev–Better Life Expectancy

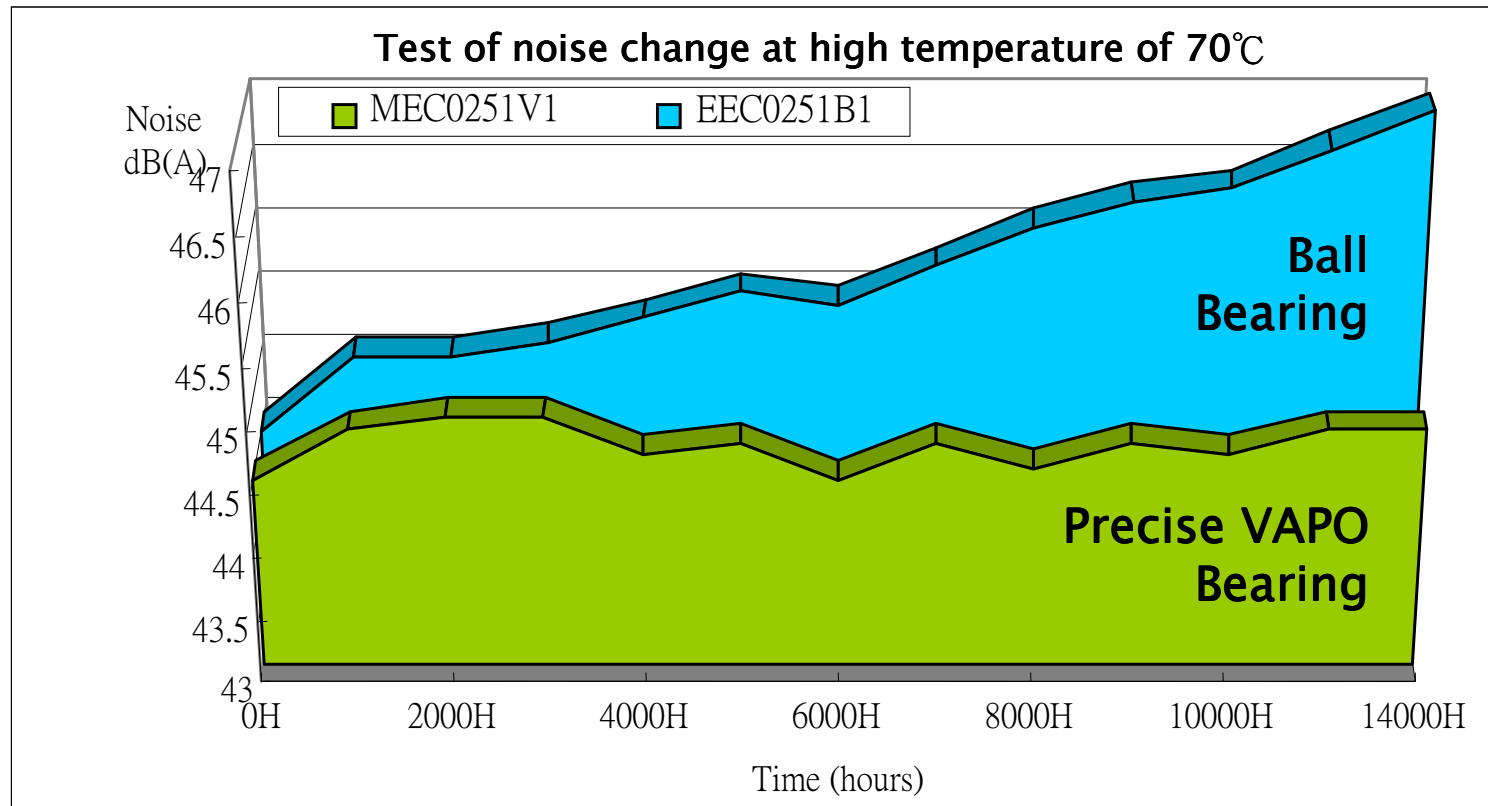
Comparing the life expectancy of DR MagLev Motor design with other bearing systems, the life expectancy of the VAPO bearing performs similar to 2 Ball bearing and therefore meets the customer's requirements for continuous fan operation.

Bearing type	Life expectancy
DR MagLev Precise VAPO	70,000 hours@40°C continuous operation
2Ball	70,000 hours@40°C continuous operation
DR MagLev VAPO	60,000 hours@40°C
Sleeve	35,000 hours@40°C

Note: Life testing on all Sunon products is done on the fan only (not installed in a system), therefore L10/MTTF data is for reference only.

Advantages of DR MagLev

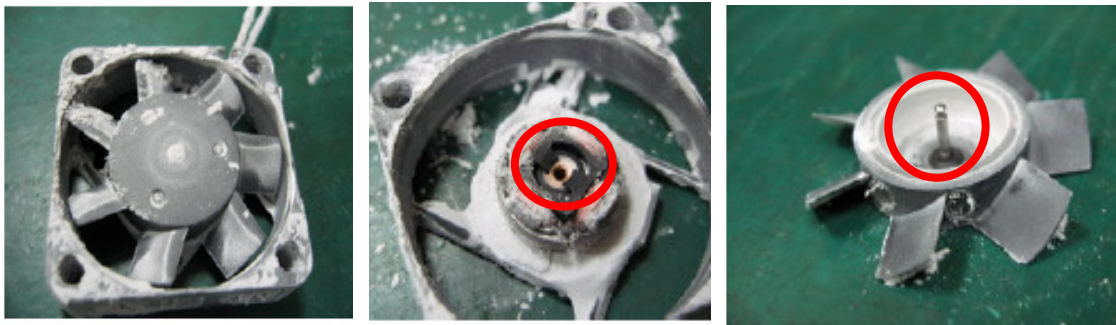
A test of continuous fan operation at a temperature of 70°C shows that Ball bearing's noise value will increase gradually over time while the noise value from the Precise VAPO bearing remains stable.



Dust proof testing results

According to the IEC60529 (IP5X) standard, there's no dust invasion in the VAPO bearing after 8 hours of dust test.

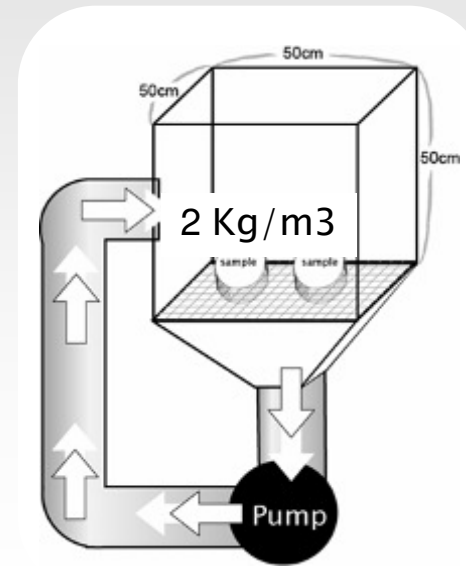
Model: ME40101VX-0000-A99



Model: ME92251V1-0000-A99



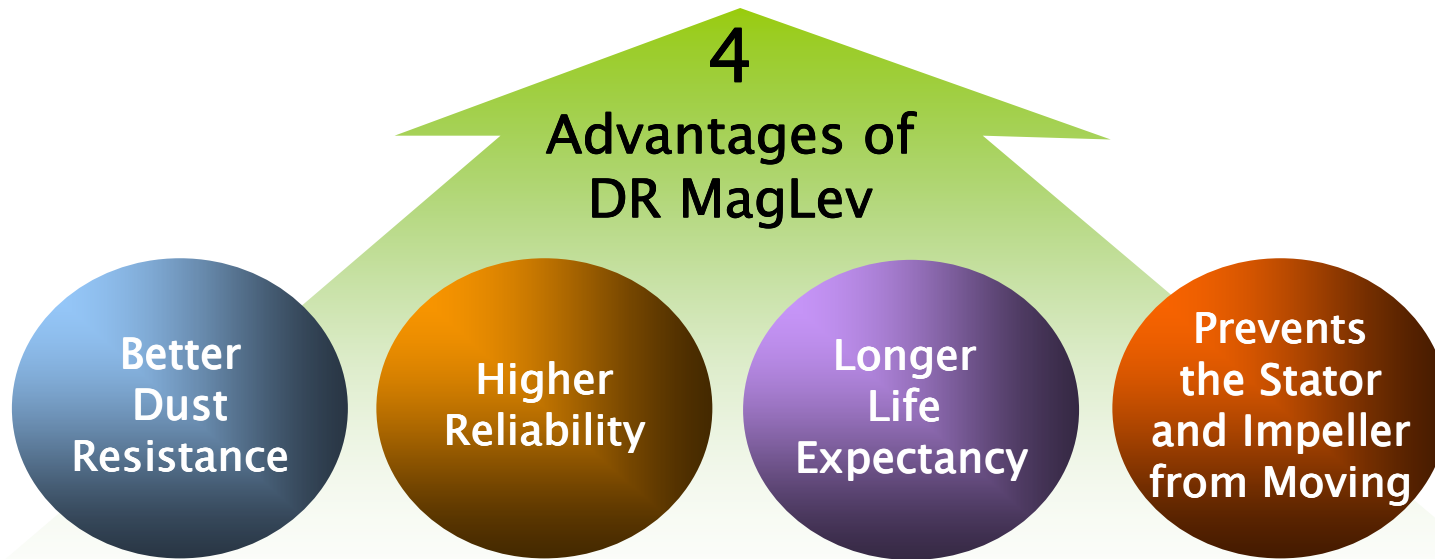
1. Standard : IEC60529 (IP5X)
2. Condition :
 - 2.1 Type of dust : Talcum powder
 - 2.2 The amount of dust : 2Kg/m³
 - 2.3 The chamber size: 1 m³
 - 2.4 Testing duration : 8 hrs



Your Best Choice –DR MagLev

The SUNON brand has become a symbol of innovation & high-tech since it introduced the MagLev technology in 1999.

Due to Sunon's pursuit of the best design and highest quality, Sunon's R&D group persist in developing the DR MagLev. With 52 worldwide patents, Sunon successfully creates the birth of DR MagLev.



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Thanks for Your Attention

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