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**FANS:**

BLDC fans are the newest innovation in fan technology, utilizing brushless DC motors that generate greater power while consuming less electricity. Unlike traditional brushed motors, these fans rely on electronic commutation to regulate the motor's rotation, eliminating the need for brushes. With fewer moving parts, BLDC fans offer greater efficiency and a longer lifespan, producing less friction and heat. In summary, BLDC fans are the smart choice for those seeking powerful yet energy- efficient and durable fan options.

**WORK :**

BLDC fans operate using a simple yet sophisticated mechanism. The fan has a stator that comprises several wire coils and a rotor that contains permanent magnets. The stator coils are arranged in a specific manner to produce a magnetic field, and the rotor's magnets generate a magnetic field that interacts with the stator's magnetic field, resulting in a rotating motion.  
  
Unlike traditional fans that use brushes to regulate motor rotation, BLDC fans use electronic commutation. The electronic controller sends a signal to the motor to change the polarity of the stator coils, causing the rotor's magnetic field to follow the stator's magnetic field and rotate. This electronic control allows for smoother operation and greater energy efficiency, making BLDC fans a smart choice for those seeking energy-efficient and long-lasting fan options.  
  
In summary, BLDC fans utilize the latest technological advancements in motor technology to provide reliable and efficient performance, making them an excellent choice for a wide range of applications.

**Why?**

Orient BLDC fans are masterpiece of innovation, created to save energy  
and your hard-earned money. Its latest designs are result of  
years of research, which ensures that you never have to compromise.  
Reasons to get a BLDC …

1)Latest design

2)Energy saving

3)Reduce carbon emission

4)Reduce coal consumption

1. Cost efficient
2. Increased durability of motor
3. Work on low voltage

Advantages

1. Normal traditional fans consume 70-75w, BLDC fans are designed to consume less power it will be around 26-30w.
2. This are build to last long and provide powerful air delivery.
3. Low noise.

IMPORTANT

1. High Air Delivery
2. Aerodynamic & Slim
3. Hydrographic PU Finish
4. Robust and reliable BLDC motor
5. Adjustable Telescopic Mounting
6. Bend & Rust Proof ABS body
7. Reverse rotation

save:

**Efficient Motor:** BLDC fans use brushless DC motors that are more energy-efficient than traditional motors. They consume less power and generate less heat, resulting in lower electricity bills.  
  
**Electronic Commutation:**The electronic commutation used in BLDC fans reduces energy loss and improves the overall efficiency of the fan. This feature enables the fan to consume less electricity while still providing the required airflow.  
  
**Variable Speed Control:** BLDC fans offer variable speed control, allowing users to adjust the fan speed according to their needs. This feature helps to save electricity by reducing the fan's speed when the temperature is low or when there are fewer people in the room.  
  
**Longer Lifespan:** BLDC fans have a longer lifespan than traditional fans, which reduces the need for replacements. This reduces the energy used in the manufacturing and disposal of fans, which in turn reduces the environmental impact and energy consumption.  
  
In summary, BLDC fans save electricity by using efficient motors, electronic commutation, variable speed control, and longer lifespan. All these features contribute to lower energy consumption, which results in lower electricity bills and a more sustainable environment.

SAVINGS FORM BLDC FANS

Example 4 fans

1)Average no.of hours a fan runs in a day : 16 hours

2) Average cost per unit of electricity is 6.60

Per year cost of normal fans are 12,026

If we used BLDC Motor fan

Per year cost is 4934