

# GOOD PRACTICES ON VENTILATION SYSTEM NOISE CONTROL

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**How do you stop ventilation noise?**

**What is the noise level of a FCU?** Fan coil units typically have a sound level around 23-30 dBA.

**Are ventilation systems noisy?** The ventilation system itself will generate some sound, with the dB level reached depending on the system used and how it was installed. Ideally, it should be around 40dB, that's about the same noise level as a quiet library and not much above a whisper.

**What are the noise control strategies in industrial safety?** Methods for Industrial Noise Control Damping – A method of reducing noise levels from chutes, hoppers, machine guards, conveyors, panels and more. Selecting efficient equipment – Selecting fans, compressors, PD blowers and engines that operate efficiently contribute significantly to noise attenuation.

**How do you soundproof a ventilation system?**

**How do you fix a noisy vent?**

**What is the acceptable noise level in HVAC?** Most units should operate between 50-70 dB and not be louder than a vacuum. A noisy outside unit can be irritating for you, but it can be bothersome to your neighbors. Consider using fencing or soundproof barriers to limit the reach of the sound but take care to not limit or block the airflow to your unit.

**What is the maximum noise level for ventilation fans?** The noise exposure standard is an 8-hour average of 85 dB(A) and a peak noise level of 140 dB(C) at the employee's ear position. Exposure to noise that exceeds the standard is considered dangerous to employees' hearing.

**What is the acceptable noise level standard?** In industrial areas, the permissible limit is 75 dB for daytime and 70 dB at night. In commercial areas, it is 65 dB and 55 dB, while in residential areas it is 55 dB and 45 dB during daytime and night respectively.

**Why is my ventilation so loud?** A whistling or roaring sound from a supply air vent could mean the vent has either too much air flowing through it or the volume damper inside the vent is partially closed restricting the normal airflow. Homeowners often close vents in empty rooms so they don't spend money to heat or cool unoccupied space.

**How loud should ventilation be?** The acceptable values are lower for typical comfort rooms, living rooms or bedrooms, where the maximum noise level can be 35 dB(A) at daytime and 25 dB(A) at night.

**What is the best type of ventilation system?** Mechanical Ventilation These systems can be more energy efficient than natural ventilation because they provide a greater amount of control and limit the heat loss.

**What is the OSHA standard for noise?** OSHA sets legal limits on noise exposure in the workplace. These limits are based on a worker's time weighted average over an 8 hour day. With noise, OSHA's permissible exposure limit (PEL) is 90 dBA for all workers for an 8 hour day.

**What is the best way to control noise?**

**What are the 4 ways of controlling noise at work?** Choose low-noise tools and machinery. Maintain and lubricate machinery and equipment (e.g., oil bearings) Place a barrier between the noise source and employee (e.g., sound walls or curtains) Enclose or isolate the noise source.

**How do you stop airborne noise?** One of the ways in which airborne sound can be minimised is through the technique of acoustic absorption. This decreases the amount of sound that reflects back into the air when hitting a surface within a building. Treating floors, walls and ceilings so that airborne sounds become less prevalent can do this.

**Why is my ventilation making a loud sound?** A whistling or roaring sound from a supply air vent could mean the vent has either too much air flowing through it or the volume damper inside the vent is partially closed restricting the normal airflow. Homeowners often close vents in empty rooms so they don't spend money to heat or cool unoccupied space.

**How to stop vents from clicking?** CLEAN, SEAL, AND INSULATE DUCTWORK  
While it may cost some money, the most effective solution short of replacing your entire duct system is to clean, seal, and insulate the ductwork. This will reduce pressure differences and soften the effects of any expanding and contracting metal ducts.

**Why is my ventilation fan so loud?** Overtime, dirt and grime build up on the fan blades can cause the fan to become noisy. Make sure that the fan blades are clean. If the fan is worn out or damaged, it may begin to make noise as it spins. We recommend you to check for wear and tear of the fan.

## **The Obama Nation: Unmasking the Hidden History of the Obama's**

**By Jerome R. Corsi**

### **Introduction**

Jerome R. Corsi, a renowned political analyst and author, has recently published a book titled "The Obama Nation: Unmasking the Hidden History of the Obama's." The book delves into the controversial past of Barack Obama and his family, raising questions about their political ideologies and personal backgrounds.

**Question 1: What is the main thesis of "The Obama Nation"?**

Answer: Corsi argues that Barack Obama is a radical leftist who has hidden his true political beliefs from the American public. He claims that Obama's father, Barack Obama Sr., was a Marxist who influenced his son's worldview.

**Question 2: What evidence does Corsi present to support his claims?**

Answer: Corsi cites Obama Sr.'s writings and speeches as evidence of his radical beliefs. He also points to Obama's associations with leftist groups, such as the New Party and the Palestinian Solidarity Movement.

**Question 3: How does Corsi characterize the Obama family?**

Answer: Corsi portrays the Obama family as troubled and dysfunctional. He claims that Obama's mother was a communist sympathizer and that Obama's grandmother was a racist. He also suggests that Obama's father may not have been his biological parent.

**Question 4: What has been the reaction to "The Obama Nation"?**

Answer: The book has generated significant controversy, with critics accusing Corsi of racism and spreading conspiracy theories. However, some supporters have praised the book's insights into the Obama family's past.

**Conclusion**

Jerome R. Corsi's "The Obama Nation" has sparked debate and controversy over the hidden history of Barack Obama and his family. While the book raises important questions about the former president's political beliefs and personal life, the accuracy of Corsi's claims remains subject to speculation and further investigation.

**Soal UN Fisika SMA 2017 dan Pembahasan Lengkap**

Pada tahun 2017, Ujian Nasional (UN) untuk mata pelajaran Fisika SMA memuat sejumlah pertanyaan yang cukup menantang. Berikut adalah beberapa soal yang muncul bersama dengan pembahasan lengkapnya:

**Soal 1:**

Sebuah benda bermassa 2 kg bergerak dengan kecepatan 10 m/s. Hitunglah energi kinetik benda tersebut!

**Pembahasan:**

Energi kinetik ( $E_k$ ) dapat dihitung menggunakan rumus  $E_k = \frac{1}{2} mv^2$ , dengan  $m$  adalah massa benda dan  $v$  adalah kecepatan benda.

Substitusikan nilai yang diketahui:  $E_k = \frac{1}{2} \times 2 \text{ kg} \times (10 \text{ m/s})^2 = 100 \text{ J}$

Jadi, energi kinetik benda tersebut adalah 100 Joule.

**Soal 2:**

Sebuah pegas dengan konstanta pegas 200 N/m diregang sejauh 5 cm. Hitunglah potensial elastis yang tersimpan dalam pegas!

**Pembahasan:**

Potensial elastis (PE) dapat dihitung menggunakan rumus  $PE = \frac{1}{2} kx^2$ , dengan  $k$  adalah konstanta pegas dan  $x$  adalah pemuaian pegas.

Substitusikan nilai yang diketahui:  $PE = \frac{1}{2} \times 200 \text{ N/m} \times (0,05 \text{ m})^2 = 2,5 \text{ J}$

Jadi, potensial elastis yang tersimpan dalam pegas adalah 2,5 Joule.

**Soal 3:**

Sebuah benda bermuatan +2  $\mu\text{C}$  berada pada jarak 10 cm dari benda bermuatan -5  $\mu\text{C}$ . Hitunglah gaya elektrostatik yang bekerja pada kedua benda!

**Pembahasan:**

Gaya elektrostatik ( $F$ ) dapat dihitung menggunakan rumus  $F = k \frac{q_1 q_2}{r^2}$ , dengan  $k$  adalah konstanta Coulomb ( $9 \times 10^9 \text{ N m}^2/\text{C}^2$ ),  $q_1$  dan  $q_2$  adalah muatan kedua benda, dan  $r$  adalah jarak antara kedua benda.

Substitusikan nilai yang diketahui:  $F = (9 \times 10^9 \text{ N m}^2/\text{C}^2) \times (2 \times 10^{-6} \text{ C}) \times (-5 \times 10^{-6} \text{ C}) / (0,1 \text{ m})^2 = 900 \text{ N}$

Jadi, gaya elektrostatik yang bekerja pada kedua benda adalah 900 Newton.

#### **Soal 4:**

Sebuah kawat lurus panjang dialiri arus listrik 5 A. Hitunglah besar induksi magnet pada titik yang berjarak 10 cm dari kawat!

#### **Pembahasan:**

Induksi magnet (B) di sekitar kawat lurus panjang dapat dihitung menggunakan rumus  $B = \mu_0 I / (2\pi r)$ , dengan  $\mu_0$  adalah permeabilitas ruang hampa ( $4\pi \times 10^{-7}$  T m/A), I adalah arus listrik, dan r adalah jarak dari kawat.

Substitusikan nilai yang diketahui:  $B = (4\pi \times 10^{-7} \text{ T m/A}) \times 5 \text{ A} / (2\pi \times 0,1 \text{ m}) = 10 \mu\text{T}$

Jadi, besar induksi magnet pada titik yang berjarak 10 cm dari kawat adalah 10 mikroTesla.

#### **Soal 5:**

Sebuah gelombang elektromagnetik memiliki panjang gelombang 600 nm. Hitunglah frekuensi gelombang tersebut!

#### **Pembahasan:**

Frekuensi (f) gelombang elektromagnetik dapat dihitung menggunakan rumus  $c = f\lambda$ , dengan c adalah kecepatan cahaya ( $3 \times 10^8$  m/s) dan  $\lambda$  adalah panjang gelombang.

Substitusikan nilai yang diketahui:  $f = c / \lambda = 3 \times 10^8 \text{ m/s} / 600 \times 10^{-9} \text{ m} = 5 \times 10^{14} \text{ Hz}$

Jadi, frekuensi gelombang elektromagnetik tersebut adalah  $5 \times 10^{14}$  Hertz atau 500 THz.

### **The Concept of Education in Islam: Syed Naquib al-Attas**

#### **Introduction**

The renowned Muslim scholar Syed Naquib al-Attas has made significant contributions to our understanding of the concept of education in Islam. His insights

provide a comprehensive framework for understanding the purpose, nature, and methodology of Islamic education.

### **What is the Purpose of Education in Islam?**

According to al-Attas, the primary goal of education in Islam is to facilitate the holistic development of the human being. This includes intellectual, moral, spiritual, and physical growth. The ultimate aim is to produce individuals who are well-rounded and capable of contributing positively to society.

### **What is the Nature of Islamic Education?**

Al-Attas emphasizes that Islamic education is a progressive process that encompasses both formal and informal learning. It is based on the principles of revelation (wahy), reason (aql), and experience (ta'lim). Knowledge gained through Islamic education is not merely instrumental, but it is also transformative, aiming to shape the heart, mind, and character of the learner.

### **What is the Methodology of Islamic Education?**

The traditional methodology of Islamic education involves a teacher-student relationship based on respect, mentorship, and transmission of knowledge. Students are encouraged to actively engage with the material through dialogue, discussion, and contemplation. The learning process is guided by Islamic principles, such as humility, reverence, and the pursuit of truth.

### **What is the Importance of Islamic Education Today?**

In the contemporary world, where materialism and secularism prevail, Islamic education is more important than ever. It provides a framework for individuals to navigate the challenges of the modern age while maintaining their Islamic identity. It also fosters a sense of community and promotes peace and understanding.

### **Conclusion**

Syed Naquib al-Attas' insights into the concept of education in Islam offer a roadmap for the creation of educational systems that prioritize the holistic development of individuals. By embracing the principles and methodology of Islamic education, we can empower generations of students to become responsible, engaged, and

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spiritually fulfilled citizens.

[the obama nation jerome r corsi](#), [soal un fisika sma 2017 dan pembahasan lengkap](#), [the concept of education in islam syed naquib al attas](#)

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