

THE ISOLATOR
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THE ISOLATOR

Hello May! As the year progresses, KGC continues to move ahead with renewed momentum -guided by engineering excellence, system reliability, and performance-focused solutions, with a hopeful outlook as peace returns across the region.

This month, we highlight two key projects: The Museum in Abu Dhabi and a luxury residential development in Bahrain, where engineered solutions enhanced system performance and ensured comfort within high-end environments.

Our technical discussion explores the BIBO HEPA filter system -examining containment design, filtration efficiency, and safety mechanisms that enable secure handling of hazardous airborne particles. We also feature Kinetics Expansion Joints -engineered to manage thermal movement, reduce stress on piping systems, and ensure long-term operational stability.

As we move through another meaningful month, we're reminded that precision, reliability, and resilience define every solution we deliver. Let's continue building stronger systems -engineered for performance, designed for stability.



PROJECT HIGHLIGHT

LOCAL PROJECT HIGHLIGHT: The Museum – Abu Dhabi



Located at the heart of Saadiyat Cultural District, The Museum - Abu Dhabi is a landmark cultural destination celebrating the rich history, heritage, and vision of the United Arab Emirates. The development reflects a journey through time-connecting ancient discoveries with modern identity-while honoring the values and legacy that continue to shape the nation today.

Beyond its architectural and cultural significance, the project incorporates highly complex mechanical systems to support its operations, including extensive chilled water networks and specialized fountain systems. These systems are subject to continuous thermal expansion, contraction, and operational vibration-requiring precise engineering to ensure long-term reliability and performance.

Engineering Approach

Kinetics was engaged to deliver specialized engineering solutions addressing piping movement and equipment vibration within this demanding environment. The objective was to integrate flexible and resilient components that could manage system stresses without compromising stability or performance.

A coordinated solution was implemented, incorporating:

- **Engineered expansion joints** to accommodate thermal movement
- **Flexible connectors** to isolate equipment and reduce stress on piping connections
- **High-performance vibration isolators** to minimize transmission to surrounding structures

Project Impact

This coordinated approach resulted in controlled thermal expansion, reduced mechanical stress, and effective vibration isolation, protecting critical equipment while enhancing system reliability and acoustic performance.

By combining flexibility with precision vibration control, the solution supports long-term durability, quieter operation, and seamless performance in demanding applications.



REGIONAL PROJECT HIGHLIGHT: Luxury Residential Development, Bahrain

Set along a prime beachfront location, this luxury residential development offers a refined coastal lifestyle defined by contemporary architecture, open layouts, and uninterrupted sea views. With direct access to a vibrant waterfront promenade, landscaped surroundings, and thoughtfully designed amenities, the project delivers a balanced living experience that combines comfort, privacy, and accessibility



Engineering Quiet Living

To support the project's high-end residential standards, Kinetics delivered specialized noise and vibration control solutions for critical MEP systems. The scope included floating floor systems, acoustic louvers for chiller areas, acoustic underlay, vibration isolators, and flexible pipe connectors—each engineered to minimize noise transmission and control structural vibration.



Integrated Performance & Comfort

These solutions were carefully coordinated to ensure optimal system performance while enhancing occupant comfort. By reducing mechanical noise and vibration at the source, the development benefits from quieter interiors, improved system reliability, and long-term durability—key elements for modern waterfront living.

Delivering Performance-Driven Living

Through a combination of advanced engineering and application-focused design, Kinetics contributed to creating a residential environment that aligns with the project's vision—where performance, comfort, and quality living come together seamlessly.



TECHNICAL DISCUSSION:

BIBO HEPA FILTRATION SYSTEMS

In high-risk environments where airborne contamination must be strictly controlled, BIBO (Bag-In Bag-Out) HEPA filtration systems provide a critical layer of protection. These systems are engineered to enable safe removal and replacement of contaminated filters without exposing personnel or the surrounding environment-maintaining complete containment integrity throughout the process.



System Design & Filtration Performance

A BIBO system integrates multiple controlled sections, including motorized inlet/outlet dampers, pre-filtration stages, HEPA filter housing, in-place test sections, and decontamination ports. The inclusion of a bagging ring system ensures sealed filter handling during maintenance operations.

At the core of the system, HEPA filters deliver 99.97% efficiency at 0.3 microns, with a typical initial pressure drop of 250–300 Pa, supporting operation in environments with temperatures up to 70–90°C. Advanced downstream scanning and test injection sections ensure continuous verification of filtration integrity.

Applications & Operational Advantages

BIBO systems are widely applied in pharmaceutical facilities, high-containment laboratories, and critical processing environments where contamination control is essential.

Key advantages include:

- Zero-exposure filter replacement through sealed containment
- Compliance with stringent biosafety and regulatory standards
- Enhanced personnel safety and environmental protection
- Reliable long-term filtration performance

Routine monitoring of differential pressure, periodic HEPA integrity testing, and inspection of containment components ensure sustained system efficiency and operational safety.

By combining advanced containment engineering with high-efficiency filtration, BIBO systems play a vital role in maintaining controlled environments where safety, precision, and compliance are non-negotiable.



PRODUCT HIGHLIGHT:

KINLAG ACOUSTIC PIPE LAGGING

Uncontrolled noise from drainage and wastewater pipes can significantly impact indoor comfort. KINLAG acoustic lagging is engineered to reduce airborne and structure-borne noise, delivering effective sound control across residential, commercial, and industrial environments. Available in both fiberglass-based and foam-based configurations, the system is designed to meet varying project requirements with flexibility and performance.



Engineered Performance

KINLAG combines a high-density mass layer for sound blocking with a decoupling layer to interrupt vibration paths, reducing noise transmission at the source. An external foil facing enhances fire resistance and ensures clean, secure installation around pipes and fittings. With tested performance of $R_w + C_{tr}$ up to 25 dB, and options of 5 kg/m^2 (STC 28) and 3 kg/m^2 (STC 26), it delivers reliable acoustic results.



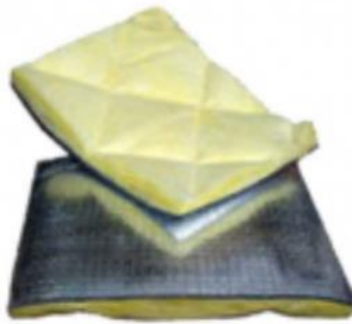
Key Features

- High acoustic insulation for pipes and ducts
- Lightweight, flexible design for easy installation
- Low VOC emissions for improved indoor air quality
- Durable construction for long-term performance
- Cost-effective solution for acoustic compliance

Applications

- Drainage and wastewater piping systems
- HVAC ducts and ventilation lines
- Walls and ceilings for improved STC performance
- Mechanical equipment and machinery wrapping

By combining acoustic efficiency, fire safety, and installation flexibility, KINLAG reflects Kinetics' commitment to delivering practical, high-performance solutions for modern building environments.



KINETICS YOUTUBE & TESTIMONIAL

Discover Kinetics spring vibration isolators, where advanced engineering and precision design work together to control noise, vibration, and seismic movement in modern buildings. From HVAC systems to pumps, chillers, and industrial equipment, Kinetics delivers solutions that protect both structures and performance.

From free-standing and restrained isolators to housed and seismic control systems, Kinetics provides a complete range of vibration isolation solutions designed for reliability, safety, and long-term efficiency. Focused on performance and acoustic comfort, our systems ensure stable and quiet operation across critical applications.



▶ YouTube Channel: <https://lnkd.in/dtwpyqw>

YouTube Video Link: <https://youtu.be/I9XtRA5ieFM?si=gn98fAJkf2zpkhpX>

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“Kinetics Group offered excellent technical support throughout the project.”

ENG. PREM KUMAR
Alemco Electromechanical L.L.C.

“Kinetics Group truly understands client needs and delivers the right solutions.”

ENG. MUHAMMAD ADNAN
Spectrum Cube Technical Services

“Fast, accurate, and friendly - that’s Kinetics Group’s sales admin team.”

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Dynamic Industrial Ventilation LLC.

“Kinetics provided a hassle-free delivery experience with clear communication.”

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“Kinetics Group made the entire process simple, smooth, and efficient.”

ENG. KAMAL SULTAN
Al Kahrman Electromechanical Works L.L.C.

“Smooth process, great communication, and punctual delivery by Kinetics Group.”

RATHEESH KUMAR
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