

The Isolator

Kinetics Middle East – Newsletter Issue 8



Allied Partners

DAMTEC - Germany

Kinetics Middle East LLC is happy to announce the collaboration of new allied partner, DAMTEC from Germany. DAMTEC is a product line of KRAIBURG Relastec GmbH & Co. KG. developed for impact sound insulation and vibration absorption. With DAMTEC & KME partnership, our customers will find a wide range of products for acoustic insulation for different requirements and application areas.

The R&D team of Kinetics and DAMTEC are jointly working to developing new acoustic underlay products for the local market.

<https://www.kraiburg-relastec.com/damtec/en/>

Employee Spotlight

Raqeeb Mohammed - Sales Engineer

This month we would like to turn the spotlight on Raqeeb Mohammed. Raqeeb joined KME directly from university after graduating in Mechanical Engineering and has been with us for 4 years, progressively developing as young professional. A world traveler, Raqeeb enjoys travelling on his free time has just got back from Antarctica, and is determined to visit all 7 continents.

We thank Raqeeb for his valuable contribution and encourage him to keep the momentum going-on for future projects.

Current Events

ISO 45001 certification

Kinetics Middle East is focusing on the occupational health and safety management system of its employees by complying with ISO 45001:2018 standards.

The occupational health and safety (OH&S) management system, ISO 45001, is a new international standard that provides a framework for an organization to manage risks and opportunities to help prevent work-related injury and ill health to workers.

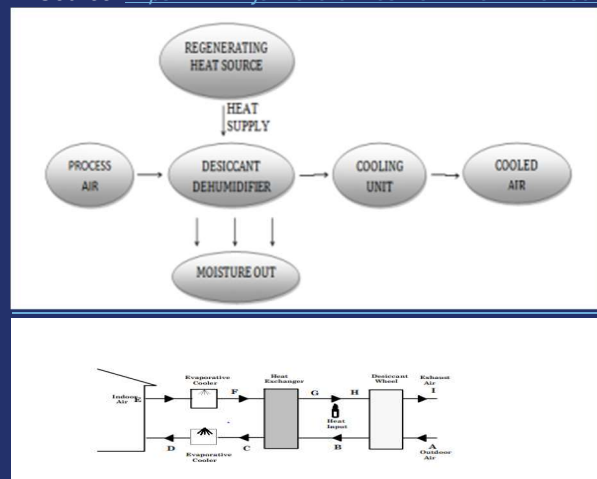
Technical Discussion: Desiccant cooling systems

Humid regions pose a challenge to the traditional air-conditioning systems. Desiccant cooling systems use desiccant materials which have an affinity to water and adsorb it on their surface. The desiccant system can use renewable sources of energy like solar thermal /biomass etc. and hence reduce the carbon footprint (CFC, HCFC) of the entire air conditioning system.

The dehumidifier is the heart of a desiccant cooling system. It efficiently removes the moisture (latent load) from the process air; the temperature (sensible load) of the dried air is then reduced to the desired comfort conditions by sensible coolers (i.e., rotary heat exchangers, direct and indirect evaporative coolers, cooling coils).

By dehumidifying the incoming air forcing it through the desiccants, the evaporative cooler can achieve greater efficiency rather on the dry air stream. Some commonly used desiccant materials include lithium chloride, triethyleneglycol, silica gels, aluminum silicates (zeolites or molecular sieves), aluminum oxides, lithium bromide solution and lithium chloride solution with water, etc.

Source: <https://www.irjet.net/archives/V3/i4/IRJET-V3I480.pdf>



PROJECT HIGHLIGHTS - THE FAMILY HOTEL, YAS ISLAND, ABU DHABI

The project involves construction of development which combines a 250 key lifestyle hotel, a 650 key family hotel, a 15,000 capacity multi-purpose arena and a unique mix of food & beverage, retail and entertainment destinations along an active waterfront promenade and car park. the resort's facilities will include a multi-purpose conference center, seven dining outlets and an innovative urban beach concept with an infinity pool suspended above the waters of the Arabian Gulf.

Kinetics current scope of work for this project includes:

- 1) Design & Supply of Seismic restraints
- 2) Design & Supply of Vibration Isolators
- 3) Pipe stress analysis and support design

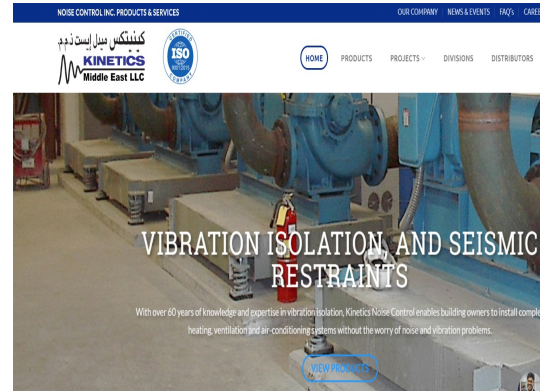


REDESIGNED WEBSITE – ALERT!

We are very excited to announce the launch of our redesigned website. Not only is the new redesign more aesthetically pleasing and easy to use, but it's also got some great add-on features like: live chat, smart search feature, and a social media stream. Our new website has it all and its jam packed with wonderful tools, product literature, and helpful presentations.

We want to stay ahead of the game and offer the most innovative features that we possibly can. That's why we are not only redesigning the website, but also updating our free downloads of the Kinetics Seismic Design Manual. Check out our new website from clicking on below link:

www.kineticsmiddleeast.com



PRODUCT HIGHLIGHT OF THE MONTH

Pipe Riser Isolation System - Kinetics model KPA & KPG Anchors & Guides

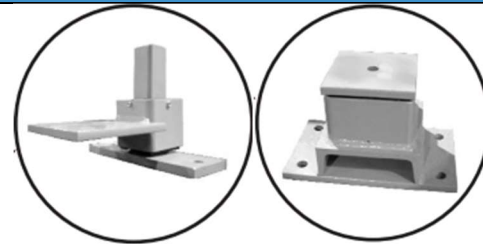
Vertical pipe risers can create a unique set of problems when they are installed in multi-story buildings. Pipe expansion due to hot water and steam will cause the overall length of the riser to grow, and chilled water will result in contraction. These pipe movements transfer substantial forces into the building structure and will result in a serious increase in stress levels within the walls of the pipe.

Kinetics model **KPA** anchors are intended to "locate" and "fix" the position of a riser or in some cases a horizontal run of piping at a point along its length. Their capacity on a long-term basis equals their listed rating in any horizontal plane, in tension or in compression.

Kinetics model **KPG** Guides are intended to "align" and "stabilize" a riser or in some cases a horizontal run of piping at a point along its length. These components offer lateral cushioning but allow free movement along their axis to accommodate expansion or contraction in the piping system.

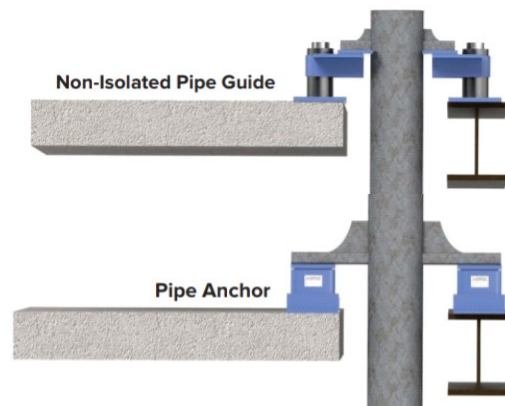
Kinetics Middle East also offers support design of the structural members and attachments to the structure.

<https://kineticsnoise.com/risers/index.html>



Riser Guide

Riser Anchor



To contribute on the Newsletter's Technical Discussion section or unsubscribe from the Newsletter, email the editor at nithin@kineticsmiddleeast.ae