

Embrace Flexibility to Remove Project Roadblocks

Emerson's latest capital project technology enables chemical, life sciences, oil and gas, and other industrial manufacturers to scale automation, simplifying project execution

As capital projects grew in scale and complexity in the last 25 years, process industry organizations experienced unforeseen cost overruns and schedule delays, resulting in billions of dollars in losses annually. Project teams responded by adopting modular construction strategies: multiple vendors across the globe working on different elements of a project, then integrating on site. While modularity simplified construction, it added complexities to on-site integration. Different process units using different control strategies and automation technologies increase project complexity.

To help organizations achieve on-time and on-budget execution, Emerson launched the Project Certainty initiative to transform capital project execution by defining project goals and adopting high-impact strategies that eliminate costs, reduce complexity, and accommodate late changes.

Emerson has taken the next leap in innovating flexible technologies to ensure project success with the launch of the DeltaV PK

Controller. More powerful and versatile than any control solution currently available, the new controller is tailored to streamline execution of capital projects. The DeltaV PK Controller is designed specifically to assist industries relying on complex, non-integrated programmable logic controllers (PLC) in simplifying capital projects.

The DeltaV PK Controller is the next revolution in automation for capital projects efficiency.

Powerful Standalone. Easily Integrated.

The DeltaV PK Controller can operate as a standalone controller and later be merged natively into a DeltaV distributed control system (DCS), eliminating on-site integration challenges. OEM modular construction can easily be merged into a DeltaV DCS on site without complex data mapping.

With a built-in OPC UA server and Ethernet connectivity, the DeltaV PK Controller securely connects to Industrial Internet of Things (IIoT), cloud-based analytics, and third-party software with-

out adding footprint, additional hardware, or re-engineering.

Whether stand-alone or fully merged, the DeltaV PK Controller delivers the features of a full-scale DCS, including batch production, recipe management, execution, and historization.

Emerson is committed to delivering flexible solutions, helping organizations adapt technology to projects rather than adapting projects to available technology. The DeltaV PK Controller facilitates the promise of modular construction, ensuring that efficiencies gained in construction are not lost during on-site commissioning and startup. The DeltaV PK Controller continues taking automation off the critical path and eliminating the costs and complexities that put capital projects at risk.

www.emerson.com/deltavpkcontroller



SonicAire Fans: Fugitive Dust has Nowhere to Hide

Combustible dust can create real dangers for your employees and have a huge financial impact on industrial facilities. Controlling that dust continues to be of critical concern, as the threat of fires and explosions from combustible dust must be dealt with on a daily basis.

There was a time in the not so distant past that the only solution for overhead fugitive dust problems was to hire people to clean up the accumulated dust after the fact. By definition, this manual cleaning meant that at certain times the dust levels were higher than normal.

This inevitable dust buildup becomes a problem. When fugitive dust accumulates, it is dangerous – even lethal. That's why OSHA levies fines when plants are out of compliance with dust levels recommended by NFPA Standards. Noncompliance means risking OSHA fines. But the bigger risk is the safety of the employees.

The reality is that manual cleaning is cyclical in nature. By definition, this means that dust accumulates before the next cleaning.



SonicAire fans have changed how the chemical industry deals with combustible dust. SonicAire fans are the first – and only – proactive, engineered solution designed to

The SonicAire 2.0 fan uses a 2 HP TEAO fan motor, giving it twice the cleaning strength of the original SonicAire fan.

eliminate overhead fugitive dust problems. Only SonicAire fans can robotically prevent fugitive dust from accumulating in the first place. In addition, these fan systems

meet or exceed NFPA standards on combustible dust, keeping facilities in compliance with relevant OSHA and NFPA regulations. Using the company's proprietary BarrierAire technology, SonicAire fans help to prevent dangerous dust explosions and improve overall air quality, creating a cleaner and healthier work environment for employees. This technology alters the direction of the dust and forces it to the floor by preventing upward currents and stagnant air that keeps dust in suspension, preventing accumulation of fugitive dust in overhead and hard-to-reach places. With a focus on Dynamic Particle Control™, SonicAire's team of engineers works with facilities to

develop a solution specific to their needs.

With SonicAire fans in use, fugitive dust has nowhere to hide.

www.sonicaire.com