

Quidel Corporation

Health begins here: COVID-19 test manufacturing site delivers healthy outcomes with Johnson Controls



Maintaining a healthy, safe and clean environment for operations is critical in healthcare manufacturing.

Employees feel and do their best when their wellbeing is a business priority, and production sites require a sterile space to avoid contamination to the critical manufacturing processes taking place within the facilities.

With this in mind, the leadership team at Quidel Corporation, a leading manufacturer of diagnostic healthcare products, knew they needed to build their Carlsbad, CA COVID-19 test manufacturing facility with employees and consumers' health as a core focus to ensure regulatory compliance. With time to serve the massive market need for at-home COVID-19 test kits running out, Quidel

was working on a tight schedule. To begin shipping COVID-19 test kits to those who needed them across the US and beyond, the company needed to build the advanced manufacturing facility and begin production as quickly as possible. As a result, the facility needed to be fully constructed in less than a year, and the production lines had to be operational even sooner.

Accelerated and strategic construction meets Quidel Corporation's timeline

Johnson Controls service branch was up to the task. With over ten years of experience

working at Quidel Corporation's McKellar site, Johnson Controls gained a deep understanding of the organization's needs, goals and standards. As part of the design build team assembled by Quidel's facilities leadership, Johnson Controls experts got to work constructing the manufacturing facility through a multimillion-dollar contract. To get the site operational as soon as possible, the team segmented completed areas of the manufacturing facility from other areas still under construction, while ensuring safety and environmental air quality was maintained for building occupants, construction crews and the critically important manufacturing processes. This strategy

Case study



As Quidel Corporation's highest volume production plant in the world, the Carlsbad manufacturing facility is on track to achieve the company's goal to produce 600M QuickVue® SARS rapid antigen tests per year while delivering healthy outcomes.

allowed manufacturing to safely begin even as construction continued through to completion.

To deliver on the customer's clean air goals, Johnson Controls implemented advanced sensor technology with humidity, temperature and carbon dioxide monitoring. They also implemented highly filtered MERV-13 air handling, dehumidification and pressurization units, all monitored and optimized by Johnson Controls Metasys building management and automation control systems. To allow facilities personnel and building operators to quickly react to any air quality issues that may arise, multi-color illuminated strobe alarms were installed throughout the facility to provide an immediately noticeable visual alert of indoor air quality (IAQ) deficiency.

Additional systems installed include heating and cooling equipment, water systems, LED lighting, fire alarms, security cameras, access control systems and more. To ensure the facility continues to

operate at peak performance, Johnson Controls will remain onsite for ongoing maintenance throughout the multi-year service and support agreement.

Clean air that drives manufacturing goals

By engaging with Johnson Controls, Quidel Corporation was able to accelerate construction of its new manufacturing site to begin operations quickly. The new site is compliant with relevant federal and state regulations to provide a clean, healthy and safe environment that supports occupant wellbeing and efficient production, meeting both Quidel Corporation and Johnson Controls high standards for quality, efficiency and sustainability.

The onsite team is able to monitor the clean air solutions to maintain the space's indoor air quality, while the ongoing service agreement will extend the building systems' operational lifecycle while ensuring that the building owner is minimizing operating costs over the

long-term. As Quidel Corporation's highest volume production plant in the world, the Carlsbad manufacturing facility is on track to achieve the company's goal to produce 600M QuickVue® SARS rapid antigen tests per year while delivering healthy outcomes.

To learn more about Johnson Controls clean air offerings, visit

www.johnsoncontrols.com/openblue/openblue-healthybuildings

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