us bank stadium

Only Exceptional Performers Invited

CHALLENGE

When you bring in the world's top entertainment venue designers to build an iconic sports facility valued at $1.1B, filling the 1.75M sq ft structure with premium equipment that performs with the latest technology is the name of the game. U.S. Bank Stadium, owned and operated by the Minnesota Sports Facilities Authority and home to the Minnesota Vikings football franchise, is big, bold and best-in-breed. Able to hold over 66,000 seated fans, the facility was designed by a team known for unique world class facilities that are destinations in themselves. With 31,000 sq ft of video boards, 1,300 Wi-Fi access points, 2,000 HD televisions and 200,000 sq ft of glass surfaces, it's no wonder the stadium's technology capabilities cost more than $60M. Both the facility owners and designers demand the best.

THE SOLUTION

While the stadium's massive glass pitched roof has garnered the lion's share of the attention, it's five hydraulically rotating entrance doors colossally scaled at 95 feet high by 50 feet wide that inspires their own share of awe. Said to be the largest pivoting entirely glass doors in the world, they host a series of smaller entry doors that serve as the daily gateway for tens of thousands. When you need the most technologically advanced way to thwart flying pests and keep climatized air inside and harsh winds outside, you call Mars.

Mars has long been the leading partner for those who deliver exceptional indoor experiences. Now with 25 sizable Mars air curtains, fans experience a halo of heated air during Minnesota winters and an invisible protective barrier from dust and pests year 'round. Down below, the dock doors that service a facility with over 430 food points of sale, have their own protection with a cluster of Mars industrial air curtains designed for environments that need heavy-duty brawn. Later when the stadium plays host to the 2018 Super Bowl, the 2019 NCAA Final Four and the 2017 and 2018 X Games, a long string of Mars air curtains will be on hand to do their part to create a winning experience.

mars

atmosphere is everything

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MARS SUPERIOR CONSTRUCTION IS A NATURAL PARTNER FOR TODAY'S NEXT-GENERATION STADIUM EXPERIENCES

MAXIMIZE MONEY-MAKING INTERIOR SPACES

Being asked to partner with what may be the most beloved American treasure is a big responsibility. It means helping create a special experience for the more than four million tourists -- Americans and foreign visitors -- every year who visit the Statue of Liberty National Monument and Ellis Island. While studies consistently affirm that consumer buying intention increases with warmth (Journal of Consumer Psychology), the prevailing winds off the Atlantic were creating an ongoing chill at this national monument causing discomfort for gift shop visitors. But when four of Mars Air Systems' electric-heated air curtains were installed to form an invisible barrier to the wind gusts and contribute to a consistent temperature at the site's gift shop, liberation from the wind was realized and the entire interior space – including entryways -- was restored to profitable comfort.

BALLS KEEP FLYING, PESTS GET GROUNDED

Camelback Ranch Stadium — home turf to two Arizona League teams and spring break host to the Los Angeles Dodgers and Chicago White Sox — sits amid 141 acres with 5,000 plants and trees that invite flying pests of every kind. Add to that a fully-stocked lake to attract pests that like standing water and frequent dust storms and its clear why the powerful Mars air curtain units were on demand across the expanse of every concession stand. With the installation of a bundle of Mars units, including those at the main kitchen receiving doors and the large stretch of opening at the White Sox training kitchen, the result is an effective embargo on flying pests, bad air, and dust in the food at this important facility that shares baseball love. Now 118,000+ sq ft of clubhouse space, 13 full baseball fields, three half-fields, and the up to 13,000 daily guests enjoy a shield of protection from unpredictable Arizona desert haboob dust storms and uninvited pests.

TOP CHAINS ORDER UP PEAK PERFORMERS

While a Health Department code may prescribe air curtains to create cleaner, pest-free food prep areas, the real mandate comes from patrons. Creating a pest-free space with evenly distributed conditioned air does more than give guests the impression of clean, it's actually a building block to designing a truly hygienic venue. Food poisoning is directly linked to flies who carry pathogenic organisms that cause E. coli, salmonella and shingles and introduce other bacteria. Working hand in hand with the sanitation protocols you already have, Mars Air Systems' air curtains above entry doors, pass through windows and back receiving doors becomes a silent sentry that seizes control to keep the uninvited out. And, we've been doing that for over 50 years for iconic hospitality brands such as Panda Express, In-N-Out Burger, Taco Bell, Subway, Olive Garden and growing up-and-comers like Smashburger and Five Guys Burgers. Whether it's the need for a recessed unit that blends seamlessly in a well-defined décor vision, or defense against brutal weather conditions -- both hot and cold -- or the need for food storage areas to be vigorously defended Mars products have been the solution of choice for the most demanding operators world-wide.

MANAGING WIDE OPEN SPACES

Large cavernous manufacturing centers grapple with complexities — voluminous staff, high traffic, inconsistent climate control, and ongoing pressure to create productive working environments so output goals are hit month after month. In the Campbell Soup Company's sprawling, 2.4 million-sq.-ft. facility, a collection of exterior doors continually introduce outside air to the workspace. Facility managers were using propeller-based fans in an ill-working attempt to barricade the unwanted airflow they blamed for drafts and shrinking productivity. The fans were doubly ineffective because they relied on excessively high horsepower to produce a wide projection of diffused air. The fans were spreading an unfocused blast of air using an excessive amount of energy. The Mars Air Systems air curtain solution was able to produce a precision air barrier with a concentrated blast of air that used only 3 HP versus the fan's excessive 15 hp. Better still, the Mars solution consumes the energy equivalency of one standard metal parking light with a 1500-watt metal halide bulb turned on for one hour and completely eliminated the view obstruction of the fans.