



Planes, Trains, Automobiles & People = You Need Protection

CHALLENGE

Air travel is the most energy intensive and polluting mode of transportation. And expansive airport complexes require voluminous quantities of climate-stabilizing energy. In fact, HVAC ventilation systems are suspected of gobbling up to 50% of an airport's energy spend. Exhaust gas from aircraft puts high levels of odorous ultrafine particles into the air and stretches highly trafficked airports like Hartsfield-Jackson Atlanta International and Newark Liberty International Airport with a trifecta of issues to be managed – odorous aircraft emissions, unrelenting vehicular emissions and millions of travelers entering and exiting expansive entryways repeatedly. Baggage claim centers sit dead center in the crosshairs of a stream of vehicles lingering with engines idling. Vehicle exhaust, fumes, ultrafine particles, wafting jet fuel – smelly, toxic annoyances hover all around.

THE SOLUTION

When daunting circumstances threaten the comfort of visitors and take your energy spend to the stratosphere, call in the titan of tough. The Mars Air Systems 1/2 horsepower Standard series can force a powerful current of air, either heated or unheated, down to form an invisible protective shield without any hindrance to the movement of people. The Mars Phantom provides sturdy service from a protective housing to provide concealment and the ability to be recess-mounted in a ceiling. Less conspicuous and quieter, they are no less tough. Using a series of 29 units in Newark Liberty International and 32 units at Hartsfield-Jackson Atlanta International across expansive commercial doors, airport administrators can now separate exhaust fumes from the newly arrived visitors in baggage claim and dramatically ramp up operational performance of their facilities. They earn their welcome at any airport.



atmosphere is everything

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NEED TO KEEP ODOROUS EXHAUST OUT?...CALL IN THE TITAN OF TOUGH



PRODUCING NON-TRADITIONAL SOLUTIONS

A whopping 50% of the total energy produced in Persian Gulf situated-Qatar is needed to air condition the country's interior spaces. With a subtropical climate, very low rainfall and average summer temperatures of 107°F that easily rise to 122°F, a powerful and consistent response is a requirement to keep the outdoors from working its way inside. The need to manage large cavernous structures such as the Doha International Airport – which spans over 22 square kilometers – and the Al Wakra Hospital that spreads over 130,000 square meters -- gave rise to environmental control challenges that were difficult for even the world's richest country to manage on their own. For the Al Wakra Hospital, a total of 198 Mars Air Systems air curtains watch over every hospital entryway to help uphold the non-negotiable indoor air quality standards of a modern healthcare facility. In a separate effort, Mars installed air curtains over facility entrances and baggage handling areas at the Doha International Airport that once handled over 29 million passengers annually. Dust storms and temperature may not always be predictable in this desert oasis, but service from the Mars air curtain has been both durable and certain.



ONLY EXCEPTIONAL PERFORMERS INVITED

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, home to the Minnesota Vikings football franchise, is big, bold and best-in-breed. With entry doors that serve as the daily gateway for tens of thousands, they needed the most technologically advanced way to thwart flying pests and keep climatized air inside and harsh winds outside. 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.

NEW COMFORT FOR OLD SPACES + RAMPED UP ENERGY SAVINGS

When a cavernous brick 35,000-sq ft. Romanesque Revival-style structure built in 1888 called for climate control and flying pest protection, they realized only the Mars Air Systems air curtain would do. Occupying nearly the full sprawling city block, upgrading the energy efficiency of this historic building was a challenge as the structures don't easily adapt to modern precision mechanical systems. To welcome the daily throngs of visitors and food shoppers, the building hosts a series of entry doors yet the multitude of openings introduces flying pests, dust and debris. Repeated opening of entry doors also exposes the interior to the Eastern Seaboard-chilled air in the winter and the stuffy conditions that pervade during the region's humid summers. Now with the Mars solution in place to create an appealing...and safe...internal atmosphere, this community gathering spot is as welcoming as it is significant.



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.



READY FOR IMMEDIATE SHIPMENT

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