



## Keeping it Fresh Enough for a Baby's Bottom

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### CHALLENGE

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As P&G's third largest diaper plant in the world responsible for exporting 60 percent of its production to Europe, Asia and the Mid-East, this Cairo-based plant often leads as one of Egypt's top American business success stories. Set in an area known for legendary dust storms that transfer accumulated debris from the far reaches of the Saharian Desert, on any typical day air quality measurements routinely record dangerously high levels of suspended particulate matter. While the region may not have yet adopted the same stringent OSHA air standards found in the U.S., a product designed to swaddle newborns, infants and toddlers has to be produced within tightly controlled atmospheric conditions so they are guaranteed to hit the consumer shelf meeting P&G's exacting standards.

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### THE SOLUTION

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Mars Air Systems to the rescue. With the installation of over 100 Mars air curtain units in a plant hosting over 1200 workers, the result was an effective embargo on bad air and dust from blowing in doorways and entryways at this key regional facility. With the use of the Mars comprehensive facilities-wide approach to controlling both loading dock entries and doorways with a directed stream of chilled air, facility managers were assured that unpredictable climatic conditions would be forced to surrender to the power of the Mars air curtain and their invisible shield of protection.



atmosphere is everything

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# STUDIES REVEAL A 6%-9% UPSIDE EFFECT ON WORK PERFORMANCE BASED ON IMPROVED AIR QUALITY AND TEMPERATURE. (WYON 2004)



## PRODUCING NON-TRADITIONAL SOLUTIONS

For high-value product manufacturers, controlling the manufacturing environment and atmosphere within a narrow degree of variability means saving tens of thousands of dollars eliminating defects. Both Subaru of America and a BMW-contractor, TW Fitting NA, LLC, used the Mars Air Systems air curtain to deliver a superior non-traditional solution for their manufacturing challenges. The Mars Engineering team's solution helped prep the tires TW Fitting NA prepares for BMW vehicles by simply suspending nine electrically-heated air curtains over the tire conveyor belt. The solution enabled the tires to be heated just enough to create a more pliable rubber and eliminate the splitting, beading and rim damage which occurred when the rubber was colder. The Mars solution then did its part to lower energy costs by eliminating the need for an energy-gulping and unwieldy liquid-propane solution. Similarly, when Subaru needed near-pristine atmospheric conditions for their paint booths, five separate Mars air curtains were installed in the hallway paint room entryway to act as an "air shower" for workers. Using the sequence of units, the Mars team was able to virtually eliminate dust and hair from the worker's clothing so particles could no longer mar the painted finish.



## CONTROLLING HUMIDITY TO MANAGE DEFECTS

Uncontrolled relative humidity levels in manufacturing can damage products during production and strike a blow to the top line. At the 1M sq. ft. Illinois-based Schrock Cabinetry laminated cabinet plant, dozens of expansive loading dock doors and entry doors gave rise to an unwinnable cat and mouse game with plant operators who tried to keep plant temperature and humidity stable enough so the laminated finish didn't crack. Knowing Mars has repeatedly provided the right answer when large industrial operators need no-fail solutions to vexing humidity, condensation or pooling water, the Schrock team installed a series of air curtains. The bank of units now stand guard and contribute to creating the consistent climate conditions so their production teams can focus on making the semi-custom cabinets that have given them a national reputation.



## PUTTING THE SKIDS ON SLIPPERY

Campbell Soup Company, one of the largest food companies in the world, operates a sprawling, 2.4 million-sq.-ft. facility on a 949-acre parcel, which includes operating a cooler/freezer storage unit 24 hours/day alongside a 8'x16' heavily trafficked forklift entrance with a fast-acting vertical-lift door. The hot, humid warehouse conditions collide with the cold, dry-storage area air which produces condensation and pools of water at the base of the freezer -- both inside and out. Water also flowed from the freezer opening directly into the walkways that hosted both foot and forklift traffic. The Mars Air Systems Engineering team isolated the precise area that needed an air burst then installed a bundle of door-activated air curtains and air diffusers right at the forklift entrance. The air curtain's forced-air action stabilized cold area temperatures by creating an air seal which effectively evaporated most surface condensation and eliminated pools of water in the walkway.



## TOO MANY PEOPLE NEED US – IT HAS TO BE RIGHT

When you're as successful as Westmoreland County Food Bank because you serve 7,200 families a month and operate a 40,000 sq.ft. facility that processes 8.6 million pounds of food a year, your food storage equipment needs to work flawlessly. For Westmoreland, facility limitations forced the freezer and evaporator to sit side-by-side which led to a healthy dose of humidity leading to ice and frost on the floor outside the freezer doorway – a safety hazard for both forklifts and workers on foot. When it's too important or costly to be anything other than right, Mars Air Systems is the team you want on your side. Mars has been repeatedly the source for answers when large industrial and foodservice operators need no-fail solutions to vexing humidity, unwanted condensation or accident-provoking pools of water. Deploying air baffles to ride shotgun along side the series of air curtains gave the Westmoreland workers the means to ward off the flowing water that had been a source of slippage, falls and worker injury.



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