

Serco HVLS Fans pack enough efficiency to help keep luggage on route

Company:
Brandt Engineering
www.brandteng.com

Challenge:
Moving air, cooling employees
in an outdoor baggage handling
area.

Solution:
Serco HVLS Fans

Industry:
Efficient & Forward thinking
Construction

Geography:
Dallas, TX

“We knew we
needed fans and
the key benefits
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these fans were
functionality,
energy efficiency
and reliability”

When Hansel Phelps was contacted by a large regional airline based out of Dallas, Texas to lead a complete renovation including several new luggage areas and one very humid baggage handling area, they knew they needed to call on the best. Brandt Engineering based in Texas with a staff of over 1,000 highly trained employees helps to design and build energy efficient, environmentally sensitive and cost effective facilities.

Luggage is an extremely important component of travel. When travelers arrive after a flight they expect their luggage to be at the other end waiting for them without disturbance. Who keeps things running smoothly for passengers and are equally important components of any airline? The airline staff, such as the pilots, ticket agents and bag handlers. Bag handlers are responsible for directing luggage from the plane, onto the correct bag claim belt. If something goes wrong during this process it can lead to a multitude of holdups and some very unhappy customers. Consequently, keeping airline staff productive and comfortable when they are tasked with handling customer luggage is imperative.

Assistant Project Manager, Ryan Cox, highlighted safety as a top priority for Brandt. He explained that they knew immediately that keeping an exposed area, such as this new baggage



handling area, cool in the extreme Texas heat would turn out to be a vital part of the projects success. Brandt wanted an extremely efficient and reliable means of moving air in this area so that airline employees would be able to work efficiently regardless of the temperature outside.

Ryan recalls, “We knew we needed fans and the key benefits we wanted from these fans were functionality, energy efficiency and reliability”.

Brandt, being the resourceful organization that it is, began meeting with companies to find the best solution available. They contacted the local Serco HVLS Fan Distributor through Texas Air Systems, the largest independent HVAC Equipment and Solutions provider in Texas and the lead mechanical contractor on the renovation project. After consulting with Serco on the best solution to keep this area comfortable for workers, Brandt decided to partner with Texas Air Systems. Through a series of

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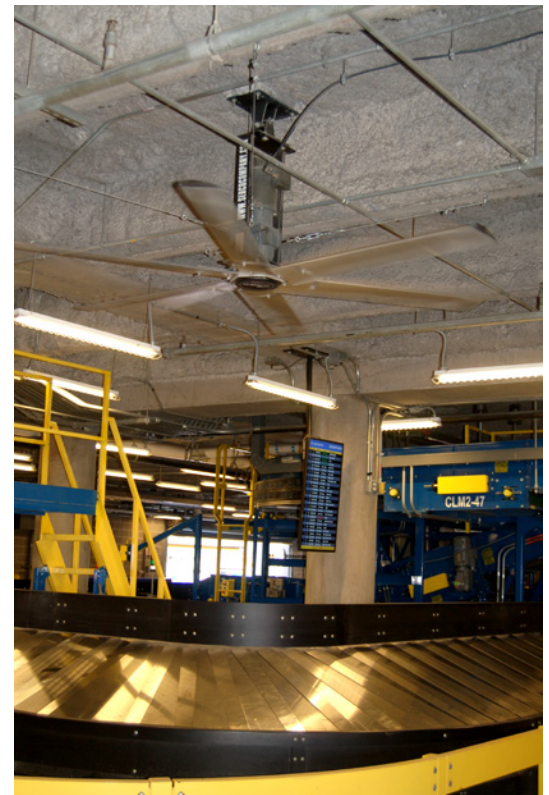
demonstrations the team elected to install 20 Serco HVLS Fans in the newly constructed outbound baggage claim area.

The beauty of the Serco HVLS Fan is in its unique design, which is comprised of lightweight one-piece extruded aluminum blades to optimize fan performance yet never putting strain on the fan itself. This feature also enables the use of a smaller motor resulting in a more energy efficient fan. In addition to better performance, this light 6-blade design also creates considerably less torque compared to the 10-blade competitive fans available in the market. The Serco HVLS Fan's lightweight design extends the life of the fans' working parts resulting in substantially reduced wear which equates to little or no need for servicing. The fan's six blade even spacing allows for maximum air draw. The increased energy-savings, operational efficiency and superior functionality were all features that attracted Brandt to purchase the fans.

“With all the challenges we wanted the best engineered fans that could move the most air, the guys get hot down here and there's no way you can run A/C because as you can see the area is fully open, commented Ryan. “Instead we decided to run the Serco HVLS fans 24 hours a day, sounds like a lot but these fans are extremely energy-efficient, the air movement makes it bearable down here,” he added.

The Serco HVLS fans move large volumes of air and produce what has been coined as the “horizontal floor jet”. This horizontal floor jet is produced

when the fan creates a large cylindrical column of air that flows down to the floor and outward in all directions, it then circulates the air vertically up the walls and draws it back in a central column, where it again flows toward the floor. This unique circulation technique comes with its own benefits. The gentle breeze generated causes a sensation of coolness, or a lower perceived temperature, not dependent on air temperature inside the building. Which is ideal for Brandt considering the outdoor baggage area would have no air conditioning. In fact, the circulation caused by the Serco HVLS fan causes the air to feel 7 to 11 degrees cooler as the breeze passes over the skin, making workers more comfortable and therefore more productive.



www.sercoentrematic.com

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“It’s cool in here, we have workers that just walk through this area to cool off, you can really feel the air that comes off these fans it’s powerful but they don’t make any noise.” mentioned Ryan.

Quiet fans that move more air are extremely beneficial especially when installed in a workplace where workers need to communicate to ensure that the correct luggage is placed on the correct luggage belt. Too much noise would lead to miscommunication and ultimately lost suitcases.

Brandt is currently at work on the second phase of the airline’s outdoor baggage claim renovation, adding another outdoor bag claim area set to open before the end of the year. “We are adding another 15-17 of these fans in this area.” added Ryan.

Brandt wanted fans to provide high functionality to meet and exceed the

goals set forth in this project. The Serco HVLS Fans provide just the right mix of functionality, energy-efficiency and quiet operation. The climate control aspect was crucial to the overall success of the baggage claim area. Comfortable workers are productive workers, and workers who can clearly hear directions increase the probability that the correct luggage will be waiting for passengers at the other end.