

SUNCO

CASE HISTORY

Pneumatic Conveying System For Powdered Milk

APPLICATION

A major U.S. food manufacturer wanted a cost-effective method to convey powdered milk out of portable bins and into their process. In addition, they needed a quick delivery of 4 weeks or less.

PROBLEM

Like most dry materials, powdered milk can cause major dust problems if not handled correctly. Conventional methods like belt or screw conveyors would not work for this application since they would create too much dust.

SOLUTION

Sunco recommended a dilute phase conveying system, which utilizes a positive-displacement blower. To unload from the portable bins, a special adjustable convey wand was used that enabled the operator to completely empty the bins and convey the material to a vacuum receiver, while creating no dust or contamination. A flexible hose connected the convey wand to the inlet of the vacuum receiver.

The vacuum receiver was a cylindrical type, constructed of stainless steel and included filter bags to remove the convey air from the material. A pulse-jet system was utilized to inject compressed air into the clean section of the receiver to clean the filter bags. At the discharge of the vacuum receiver was a stainless steel rotary valve.

The key component to the system was a Sunco Model 11-4506 Vacuum Blower Package. The package included an intake filter/silencer, relief valve, vacuum gauge, motor and drive package and discharge silencer, all mounted on a common base.

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RESULTS

The Sunco Dilute Phase Convey System delivered a consistent flow of the powdered milk, while at the same time providing a dust-free work environment. In addition, the customer's quick delivery requirements were met, enabling them to start up the new system right on schedule.

For more information on this application or the equipment provided, please contact Sunco or your local representative.



A Sunco Model 11-4506 Blower Package was an integral part of the dilute phase pneumatic conveying system handling powdered milk.

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