Applications of Fox Venturi Eductors

Case Study No. 25

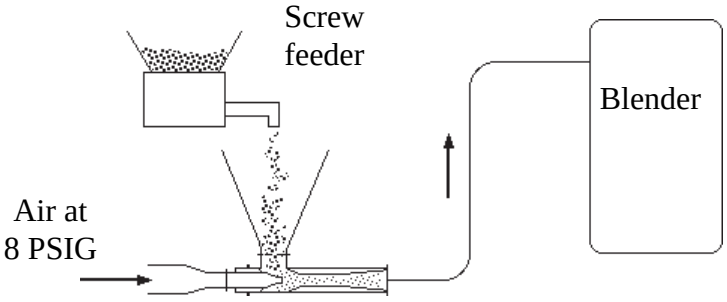
Product: **Non-fat dry milk and coffee creamer**
Bulk density - 10 to 25 lbs/cu ft.

Problem: **Food additive conveying**

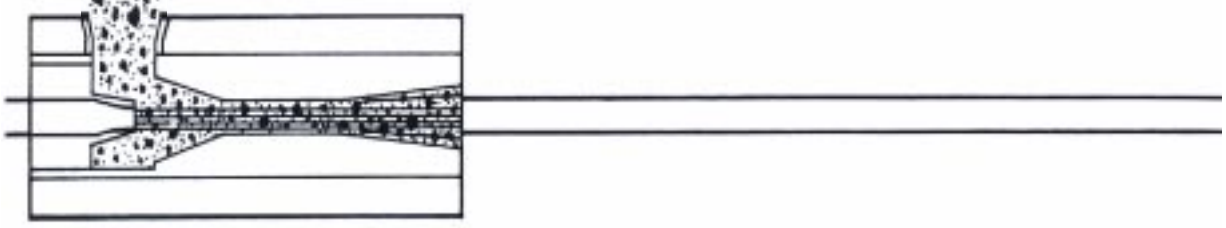
A major Wisconsin food processing company required an inexpensive and reliable method of continuously feeding 500 lbs/hr of coffee creamer or non-fat dry milk into a blender. The application demanded fully sanitary components for cleanliness and ease of disassembly. Due to the relatively low required product flow rate, a small pneumatic conveying system was chosen as the method of product transport.

The plant engineer responsible for installing the system attended a trade show where a Fox Venturi Eductor was being demonstrated. The benefits of the eductor's maintenance-free operation (as a consequence of its no-moving-parts construction), were obvious and the engineer decided to give one a try.

Solution: A 2" Fox Sanitary Eductor was installed and is operating flawlessly. 500 lbs/hr of either coffee creamer or dry milk is fed to the eductor from a screw feeder. The product is conveyed by the eductor to the continuous blender using about 60 SCFM of plant air, regulated down to 8 PSIG. The plant engineers are so pleased with the eductor's performance that they are planning several retrofits in other systems.



Fox 2" Sanitary Venturi Eductor



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