



The Industrial Solutions Group

Providing World Class, Innovative Solutions

Warehouse HVAC

- Site Master Plan
 - Building MEP
 - HVAC Design
 - Explosion Suppression System
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HVAC Unit

The Challenge: An International cereal company experienced very high costs storing, shipping and reshipping fruits and nuts it uses in its cereals. Food products were stored in cool, off-site facilities. Products were then shipped to the plant for production. This approach created unnecessary shuttle costs, product and low productivity.

ISG's Innovative Solution

ISG considered several ways to provide on-site storage that worked around restricted site requirements and congested traffic problems. ISG's innovative solution included:

- A cost effective macro supply inventory for both cool and dry non-bulk materials.
- The most efficient storage configuration that accommodated the high volume .
- Design and construction of a new warehouse to store dried fruit.
- Design of an energy efficient HVAC system that reduced operating costs to maintain 60°F and 60% RH (optimum for fruit and nut storage).
- Defined bag house dust explosion suppression system that avoided the need for expensive explosion vents.

Benefits to Client

- The client increased productivity and reduced shipping costs by more than **\$1,100,000 per year**.
- The energy efficient HVAC system save an additional **\$250,000 per year**.