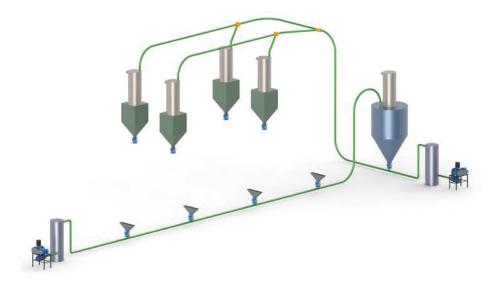




Pneumatic Conveying System

A Pneumatic Conveying System is a process by which dry powders or granules are transported or carried utilizing a gas from a source to a destination. The bulk materials are transferred through an enclosed conveying pipeline by the collective force of pressure or vacuum and the gas used (commonly air).

Depending on the product characteristics, gas volume & pressures are applied at design stage. This parameter categorises the systems as either LEAN Phase Pneumatic Conveying System or DENSE Phase Pneumatic Conveying System.



1. Lean Phase

Lean Phase Conveying occurs when a material is conveyed in suspension in the following air. Lean phase is characterized by high velocity, low pressure (<1 bar) & Low solid to gas ratio.

Types of Lean Phase Conveying Systems are:

a. Lean Phase Vacuum Conveying

Capacity: Up to 10 TPH

Conveying Distance: Up to 100 meters
Density of material: 150-2000 Kg/m3

• Vacuum: Up to (-) 0.5 Bar

• Material handled: Chips, Fine Powder, Ash, Other low-density material, etc.

b. Lean Phase Pressure Conveying

Capacity: Up to 35 TPH

Conveying Distance: up to 200 meters
Density of material: 150-2500 Kg/m3

• Pressure: Up to 1 Bar

• Material handled: Powders, Sugar, Abrasive Material, Bulker Unloading, etc



2. Dense Phase

Dense Phase conveying occurs when material is conveyed with air velocities lower than those required for dilute phase over all or part of the pipeline. It is often referred to as non-suspension flow. It is characterized by low velocity, High Pressure (>1 bar) and Low Solid to Gas ratio.

• Capacity: Up to 300 TPH

Conveying Distance: Up to 450 meters
Density of material: 150-3500 Kg/m3

• Pressure: Up to 5 Bar

• Material handled: Highly Abrasive materials, Fly Ash, etc.

TNBi Pneumatic Conveying System Advantages

- High Reliability
- · Precise conveying
- Dust Free operation
- Optimize Power consumption
- Hygienic operation
- User Friendly
- Completely Automatic System
- Less man power required
- Optimize space requirement
- Handle many different solids
 (Abrasive, Corrosive, Combustible, etc)
- Closed Loop Inert Gas Conveying available
- Multiple feed and discharge point can be given

Industries Served

- Food & Pharmaceuticals
- Steel
- · Chemicals & Petrochemicals
- Cement
- Power Plant
- Refinery
- Agro Based / Sugar / Rice / Tobacco

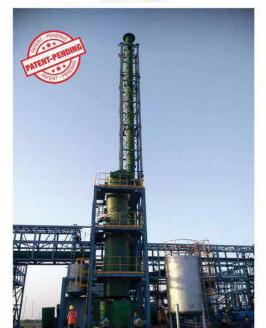


- Breweries and Distilleries
- Paper and pulp
- Textiles
- Soaps, Detergents & Waxes
- Non-Ferrous Metallurgy
- Paints, pigments and Dyes
- Etc.

OTHER PRODUCT LINE



Scrubber



Bag Filter



Cyclone



Classifier



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