

Pneumatic conveyance has become the preferred transport method for many industries. Its growing popularity can be credited to the substantial benefits they provide for productivity, efficiency, quality and safety.

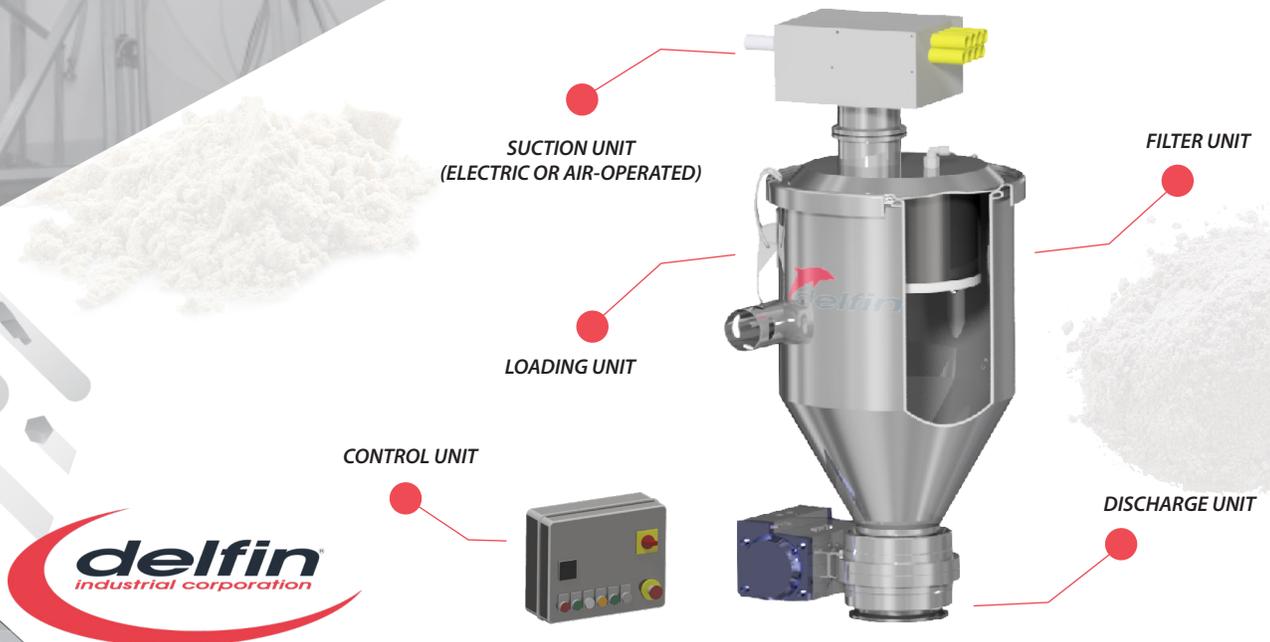
Materials are moved using advanced vacuum pressure generated by compressed air or electricity. They are then discharged at a chosen point, which is typically in an assembly line or a packaging station.

Airflow can move material in dense phase (Venturi unit) to avoid the demixing of product, or in diluted phase (single-phase electric) to preserve its morphology.



## PNEUMATIC CONVEYORS

Pneumatic conveyance is the safest and most effective way to move dust, granules and solids. Delfin's systems can be attached to either automatic or semi-automatic machinery and increase productivity up to 30%.



### TOXIC MATERIALS

Delfin's conveyors are closed systems so toxic and harmful materials cannot be dispersed throughout the environment.



### COMBUSTIBLE MATERIALS

The conditions needed for a dust explosion to occur can be avoided by preventing electrostatic charges.

## FLEXIBILITY

Delfin's flexible tubing bends easily to adapt to any layout, and it can be moved or modified as needed.

## SANITATION

Smooth surfaces and a simple air load allow pipe sanitation and filter changes to be completely very quickly

## MAINTENANCE

Electric conveyor is low wear, low maintenance. Air-operated conveyor is maintenance-free because it has no mechanical parts.

## QUALITY

Product is conveyed from above to minimize dropping and surface contact, and materials can stay separated easily to prevent cross-contamination.

## SAFETY

System is ATEX certified and NFPA compliant for handling combustible dust, and the conveyor is closed to prevent dispersion of toxic materials.



## Air-Operated Pneumatic Conveyors

Suggested for maximum hygiene and silence, or when air is preferable to electricity (up to 1300 kg/h)

- *Multi-jet Venturi system with low air intake*
  - ✓ ATEX z21 & 22 / NFPA compliant (Class I & II)
  - ✓ All components are FDA certified

|            |                         | Venturi                  |
|------------|-------------------------|--------------------------|
| Power      | hp (kW)                 | 5.36 - 20.1 (4 - 15)     |
| Water Lift | inH2O (mmH2O)           | 301.2 (7650)             |
| Air Supply | CFM (lt/min)            | 13.1 - 49.5 (370 - 1400) |
| Airflow    | CFM (m <sup>3</sup> /h) | 64.7 - 223.7 (110 - 380) |

### Features

- ✓ Stainless steel construction
- ✓ Total customization
- ✓ Quiet performance
- ✓ Low heat
- ✓ Control unit

### Loading Unit

- ✓ Tangential inlet (40-100 mm)
- ✓ Capacity / 2-11 gal (8-45 lt)

### Discharge Unit

- ✓ Discharge size (100-250 mm)
- ✓ Clapet valve, butterfly valve

### Filtration Unit

- ✓ Certified polyester or stainless steel
- ✓ Automatic filter cleaning system

### Optionals

- ✓ Pick-up hopper
- ✓ Suction nozzle
- ✓ Start-stop sensor
- ✓ Fixed or dynamic frame
- ✓ Wide range of food grade accessories
- ✓ More options available

## Electric Pneumatic Conveyors

Suggested for moving solids and increasing productivity with more speed and less air consumption (up to 4000 kg/h)

- *Powerful bypass motor or side-channel blower*
  - ✓ ATEX z22 / NFPA compliant (Class II)
  - ✓ All components are FDA certified

|            |                         | 230V /1ph    | 400V /3ph                  |
|------------|-------------------------|--------------|----------------------------|
| Power      | hp (kW)                 | 1.5 (1.15)   | 2.9 - 23.2 (2.2 - 17.3)    |
| Water Lift | inH2O (mmH2O)           | 100.4 (2549) | 84.3 - 216.8 (2141 - 5506) |
| Airflow    | CFM (m <sup>3</sup> /h) | 105.9 (180)  | 187.2 - 706.3 (318 - 1200) |



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"Your safety is our focus, one dust particle at a time."



