

# MSV SERIES DENSE PHASE VACUUM CONVEYORS

**Automated Ingredient Systems** MSV Series Vacuum Conveyors are designed to offer customers a self-contained vacuum conveying system that can be quickly and easily put into service. Applications range from simple up and in type systems to multiple elbow long distance systems with rates in excess of 10,000 pph. When combined with other AIS products such as Bulk Bag Unloaders and Bag Dump Stations, customers can easily automate their ingredient delivery process. The standard capacities range from .65 cubic feet to 15 cubic feet. Conveying rates range from 2,000 pph to over 25,000 pph. Multiple motive air sources allow the MSV the versatility to handle virtually any dry powder, or granular product. The MSV can operate as a self-contained system with a motive air source, reverse pulse jet filter cleaning system, level control, discharge valve, flow aids to assist with product discharge and an electronic control system.

## FEATURES

**Multiple Motive Air Options** - Receiver can be used with compressed air driven pumps, PD blowers, or regenerative type blowers.

**Electronic Controls** – Control units are operated from 120-VAC power and can be customized to the customer's application.

**Materials of construction** – Units are constructed of either carbon steel, or 304 stainless steel. Carbon steel units are finished with a stainless steel urethane exterior coating. Stainless steel units have internal welds ground smooth and flush and have an optional glass bead blast exterior finish.

**Filter Cleaning Assembly** – Reverse pulse jet filter cleaning assembly removes particulate from the filter element.

**Gauges** – Units are equipped with a vacuum gauge and magnehelic gauge.

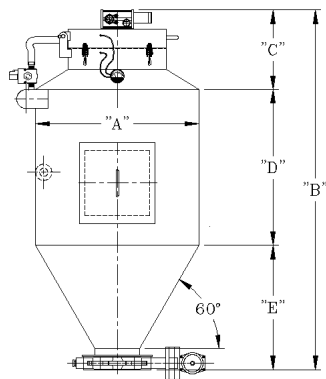
**Quick Access Filter Design** – Top access filter design allows filters to be changed in a few minutes with no tools.

**Additional Options** – Options include level sensors, aeration and vibration assemblies, rotary airlocks, discharge valves and custom configurations.



Automated Ingredient Systems, L.L.C.

# DIMENSIONS



## DIMENSION TABLE

| CAPACITY | "A"    | "B"    | "C"    | "D"    | "E"    |
|----------|--------|--------|--------|--------|--------|
| 3 CU FT  | 24" ID | 61.96" | 14.69" | 29.55" | 17.73" |
| 5 CU FT  | 30" ID | 66.38" | 14.69" | 28.77" | 22.92" |
| 7 CU FT  | 30" ID | 71.38" | 14.69" | 33.77" | 22.92" |
| 10 CU FT | 34" ID | 75.84" | 14.69" | 34.77" | 26.39" |
| 15 CU FT | 34" ID | 85.84" | 14.69" | 44.77" | 26.39" |

Notes: Dimension table is based on an 8" diameter discharge. Heights will be affected if another discharge diameter is required. Units not limited to the capacities shown. Please consult factory for options.

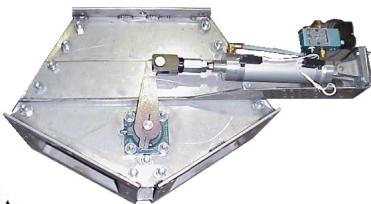
## AVERAGE TRANSFER RATES

| MAX VAC (-inHg) | MODEL    | AIR CONS. (scfm) | Tube Diameter in inches | Distance of transfer |               |             |             |                 |
|-----------------|----------|------------------|-------------------------|----------------------|---------------|-------------|-------------|-----------------|
|                 |          |                  |                         | 15 feet              | 30 feet       | 60 feet     | 90 feet     | +100 feet       |
| 27.1            | MSV-200  | 30               | 1.25-2.0                | 3,500-4,500          | 2,000-2,750   | 1,000-1,300 | 500-700     | Consult factory |
|                 | MSV-400  | 60               | 1.5-2.0                 | 6,000-8,500          | 3,300-4,300   | 1,800-2,300 | 900-1,400   | Consult factory |
|                 | MSV-800  | 120              | 2.0-3.0                 | 13,000-17,000        | 6,500-8,500   | 3,500-4,500 | 2,200-2,900 | Consult factory |
|                 | MSV-1200 | 180              | 3.0-4.0                 | 20,000-26,000        | 10,000-13,000 | 5,500-7,200 | 3,500-4,500 | Consult factory |

Capacity figures are based on powdered, granulated or similarly constituted materials with a density of 37.5-75 pounds/cubic foot and a lifting height of 10 feet. Stated capacities are guidelines only; exact values depend on the specific application and material. We offer complete testing for verification of process parameters and requirements. Please call for testing lead-times.

## OPTIONS

- PTFE filter media
- Timer board enclosure
- Quick take apart style
- PLC operation
- Impacting vibrator assembly
- Cone fluidization assembly
- Level Indicator
- Butterfly discharge valve
- Rotary airlock discharge valve



## ACCESSORIES

- Vacuum Wand
- Pick-up Pan
- Magnet
- Diverter Valve
- Mixers
- Sifters
- Bag Dump Stations
- Bulk Bag Unloaders
- Controls
- Flexible Convey Tubing
- Tube and pipe

