

## *Vacuum Feeder VAF 450/650*



PMS Vacuum Feeder® provides the unique pneumatic-transferring system of the dry solid particles in the close system. It significantly reduces the conventional material handling, as well as, completely eliminates the risk of contamination. The usual bulk density for the material to be transferred should be less than 0.5 kilogram per liter and the distance of vacuum system should be less than 50 meters.

### **Theory of Operation**

Using the vacuum pump, the air is pulled through the fabric filters to create the vacuum in the chamber, which will convey the materials from the remote location via flexible hose into the chamber. Then, the materials will be transferred into the container or machine through the feeding port. Alternatively, when the vacuum is created in the pipeline, the product will be transferred into the powder container. This system is also called Low Density Vacuum Conveying System, which is most suitable for non-abrasive, fine, low bulk density, fibrous, and large light particle materials.

To ensure the stable efficiency of the conveying process, the feeder is enhanced with the electro-pneumatic filter cleaning mechanism. The remaining waste product can be removed from the feeder (through bottom butterfly valve) is attached for disposing of the remaining dust from the filters.

This principle totally separates the product from the moving parts. Therefore, it prevents the material handling from contamination. In addition, all contact parts are made of stainless steel and Food grade hose which is compliance to cGMP standard.

### **Application:**

- Pharmaceuticals
- Food
- Agricultural
- Chemical

**Benefit:**

1. cGMP Compliance
2. Efficient and Economical
3. Reduce contamination
4. Reduce material handling time
5. Easy to Operate, Clean and Maintenance
6. Safe and Clean working environment

**Technical Data:**

		<b>VAF 450</b>	<b>VAF 650</b>
Capacity (kg / Hour)		1,000-1,500	2,000 - 3,000
Container Hopper (mm)	∅	450	650
	H	1,4	1,6
Overall Dimension (mm)	W	650	750
	L	1,33	1,5
	H	1,58	1,785
Driving Unit (KW)		2.2	2.2

**Standard:**

1. All parts are made of SUS 304
2. Using gas ring vacuum pump to generate vacuum
3. Non-Explosion proof motor and control
4. Electric controller with PLC
5. Manually operated discharged value

**Options:**

1. All parts are made of SUS 316
2. Explosion proof motor and control
3. Touch screen HMI
4. Electric or pneumatic controlled discharge value