

SUPERSUCKER™ - PNEUMATIC UNLOADING SYSTEM



General Description

The Supersucker™ can be equipped with a pneumatic unloading option to discharge virtually any dry or wet material from the body into a silo, storage hopper, truck or storage containers. Unloading is accomplished by connecting the air conveying line from the vacuum pump exhaust port to the discharge port of the auger, which is mounted laterally in the tailgate. Raising the collector body allows the auger to meter material through its discharge port into the pressurized conveying line. Pneumatic unloading cannot occur during the loading operation.

Controls

The velocity of conveying air can be controlled by adjusting the speed of the vacuum pump. Light or fragile materials are conveyed at low speeds and heavier materials at higher speeds. The auger speed can be controlled to increase or decrease the amount of material metered from the body. Auger rotation is reversible. A pressure gauge is provided to indicate optimum operational conditions. All controls are located at the Supersucker control panel.



Auger

The auger system is an integral part of the tailgate and does not interfere with normal machine functions. The operator can choose to dump recovered material in the conventional manner or discharge material pneumatically through the auger system to a remote location. The auger can also meter material from the body without pneumatic conveying. The 9" (228.6 mm) diameter auger is double flighted to pull material from both sides toward the center discharge port. The auger shaft is supported by anti-friction bearings and seals.

Auger Drive

The auger is driven by a low speed high torque hydraulic motor using a fully enclosed chain and sprocket arrangement. Hydraulic power is obtained from the Supersucker hydraulic system. Auger speed is controlled by an adjustable hydraulic flow valve.



Relief Valves

When conveying pressure reaches a predetermined level, the unloading system will automatically vent, protecting the complete system. Access to the latchable silencer lids is via a ground level ladder with platform.



Discharge Ducting

The airflow initiates from the vacuum pump discharge silencer and continues to the discharge port of the auger. Connections are easily accomplished from ground level with camlok fittings.

SPECIFICATIONS

Auger	9" (228.6 mm) diameter with sealed and greasable end bearings
Discharge Tee	6" (152.4 mm) diameter, camlock fittings, pressure bypass back to body
Check Valve	Inline check valve to prevent foreign material from being pulled back into vacuum pump
Hoses	6" (152.4 mm) diameter, heavy duty, air conveying line with camlock fittings to connect vacuum pump exhaust port to auger discharge
Auger Drive	Low speed, high torque hydraulic motor. Auger speed is variable/adjustable and reversible
System PSI Ratings	8-12 PSI (.54-.82 bar) Determined by Supersucker Model
PSI Relief Valves	Set to the predetermined system levels (8-12 PSI / .54-.82 bar) to prevent over pressurization
Silencer(s)	Latchable deflector(s) on silencer(s)
Controls	All controls are located at the main control cabinet



Vacuum Pump Protection

The vacuum pump is protected by a pressure relief system which vents in the event of a plugged discharge line, plugged filter at the receiving site, or an attempt to convey too large an amount of material.



Set Up

The discharge ducting and pneumatic conveying line can be easily connected from ground level with 6" (152.4 mm) diameter lines.

Super Products
P.O. Box 270128
Milwaukee, WI 53227



800-837-9711
262-784-7100
FAX 262-784-9561
sales@superproductscorp.com
www.superproductscorp.com
An **Indel** Company