



PNEUMATIC CONVEYING SYSTEMS

CB-Series BLEND-VEYOR



OVERVIEW

The CB-Series is a vacuum loaded semi-dense phase blender and conveyor with a capacity of 20+ TPH. It is best suited for multiple sourced, powdered, granular or pelletized abrasive materials that are friable.

Medium pressure blower air is used to venturi-vacuum load and convey two or more materials at lower line velocities and higher material-to-air ratios, minimizing abrasive wear and particle degradation.

The unit is capable of multiple applications, from blending, bulk carrier unloading or in-plant transfer. The CB-Series also weighs and batches with inventory control.

APPLICATIONS

- Blending / Bulk unloading / In-plant transfer / Scaling / Batching
- Combined blending and conveying in one unit
- Excellent solution for rotary airlock replacement with difficult applications

MATERIALS / CHARACTERISTICS

- Powdered, granular, pelletized materials that are abrasive or friable

CAPACITY

- 5 - 20+ TPH

BENEFITS AND FEATURES

- Proprietary combined blending (two or more materials) with semi-dense phase conveying. Uses a single 15 PSIG positive displacement blower for vacuum-pressure conveying at low line velocities (<2000-3000 fpm) and high material-to-air ratios (50-20) for less product degradation and less abrasive line wear.
- No costly pits or overheads required
- Vacuum or vacuum assisted load via single or multiple inlets from any direction(s)
- Less operator supervision via automated controls
- Standard:
 - Carbon steel
 - Load cells
 - NEMA 4 controls
 - Two inlets
- Specify:
 - Portable or stationary
 - Stainless steel or epoxy coated
 - Multiple inlets

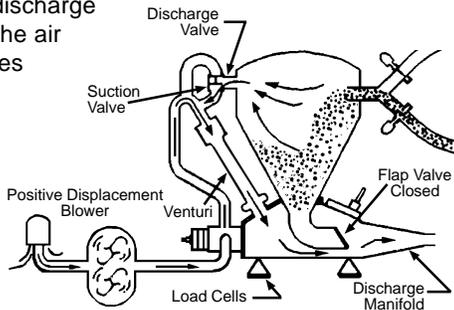
REQUIREMENTS

- 110 VAC, 50-60 Hz or 12 VDC
- 15 PSIG air; 90-100 PSIG control air at 3-5 scfm

CB BLEND-VEYOR

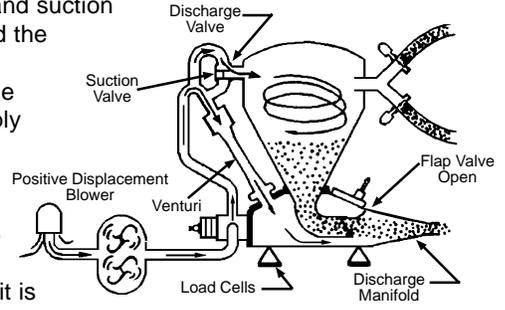
VACUUM LOAD CYCLE

As the load cycle begins, the suction valve opens while the discharge valve is closed. The air pressure generates a vacuum by patented venturi action. As the vacuum increases in the transfer vessel, the separately valved dual inlets open until the desired weight is reached.



PRESSURE DISCHARGE CYCLE

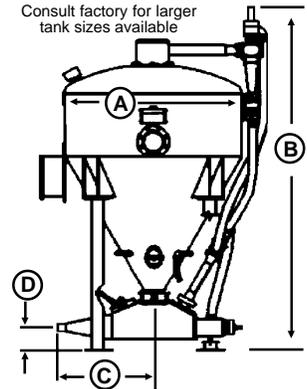
Upon completion of the load/blend cycle, the inlet and suction valves close and the discharge valve opens. The same positive air supply which created the vacuum is used to push the material into the discharge manifold where it is fluidized for semi conveying— minimizing particle degradation, reducing line wear and increasing system efficiency.



PRODUCT SPECIFICATIONS

MODEL NUMBER	VOLUME CU.FT.	A	B*	C	D*	AIR INLET	TYPICAL MATERIAL INLET	TYPICAL DISCHARGE	APPROX. WEIGHT
CB-10	10	30	77	42	7	3	6	6	1400
CB-30	30	42	97	43	9	6	6	6	1600
CB-50	50	50	111	42	8	6	6	6	1900
CB-75	75	50	137	35	6	6	8	8	2500

NOTE: Dimensional data for reference only. Subject to change without notice. All weights are in pounds, all dimensional units are in inches, unless noted.
 * Without load cell, with load cell add 5".



SEMI-DENSE PHASE BLEND/TRANSFER

