2922 North Division Avenue • PO Box 366 • York, NE 68467-0366 • 402-362-2000 • 800-445-0730 • Fax 402-362-2001 • sales@cyclonaire.com • www.cyclonaire.com

cyclonaire®

PNEUMATIC CONVEYING SYSTEMS

GF SERIES CONVEYOR

OVERVIEW

The GF Series is a high-capacity, gravity-loaded semi-dense phase conveyor with a range of capacities up to 100+ TPH. It is suited for any dry powder, pellet, or granular material.

Medium-pressure blower air is used to convey material at intermediate line velocities and higher material-to-air ratios for less abrasive wear and particle degradation than dilute phase systems.

The unit is capable of multiple applications, from silo, IBC, and bulk bag unloading to inplant transfer.

APPLICATIONS

- High capacity transfers
- Bulk silos, IBC, and bulk bag unloading/ In-plant transfer

MATERIALS/CHARACTERISTICS

- Powder, pellet, or granular materials
- Ideal for abrasive materials

CAPACITY

- Up to 100+ TPH

BENEFITS AND FEATURES

- Semi-dense conveyor uses medium-pressure blower air to convey material at intermediate line velocities (<2000-3000 fpm) and material-to-air ratios (15-30) for low abrasive line wear and reduced product degradation
- Excellent replacement for worn out rotary valves in abrasive material applications
- Less operator supervision via automated controls
- Specify: Carbon steel, stainless steel, or epoxy coated

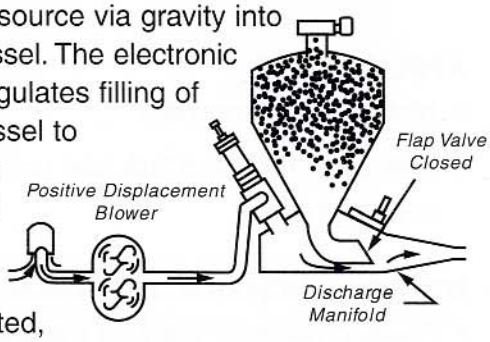
REQUIREMENTS

- 110 VAC, 50-60 Hz
- 15 PSIG convey air, 90-100 PSIG control air @ 3-5 scfm

GF SERIES CONVEYOR

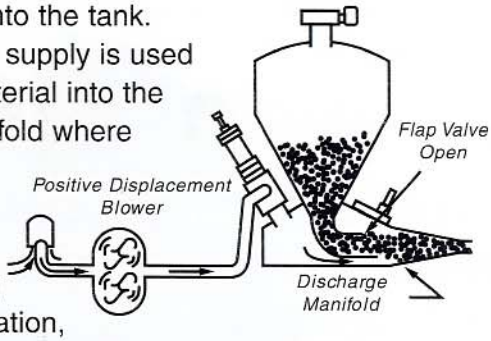
GRAVITY LOAD CYCLE

As the load cycle begins, the HV valve directs the blower air through the convey line. The material flows from the source via gravity into the transfer vessel. The electronic level control regulates filling of the transfer vessel to optimum levels during the load cycle. In the event material flow is interrupted, a backup solid-state timer takes over operation.



PRESSURE DISCHARGE CYCLE

When the transfer vessel has been filled to the optimum level, the HV valve switches, directing the blower air into the tank. The positive air supply is used to push the material into the discharge manifold where it is fluidized for semi-dense conveying – thus minimizing particle degradation, reducing line wear, and increasing system efficiency.

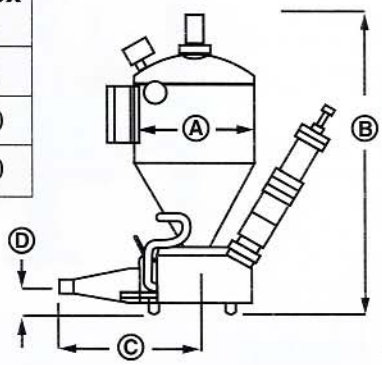


PRODUCT SPECIFICATIONS

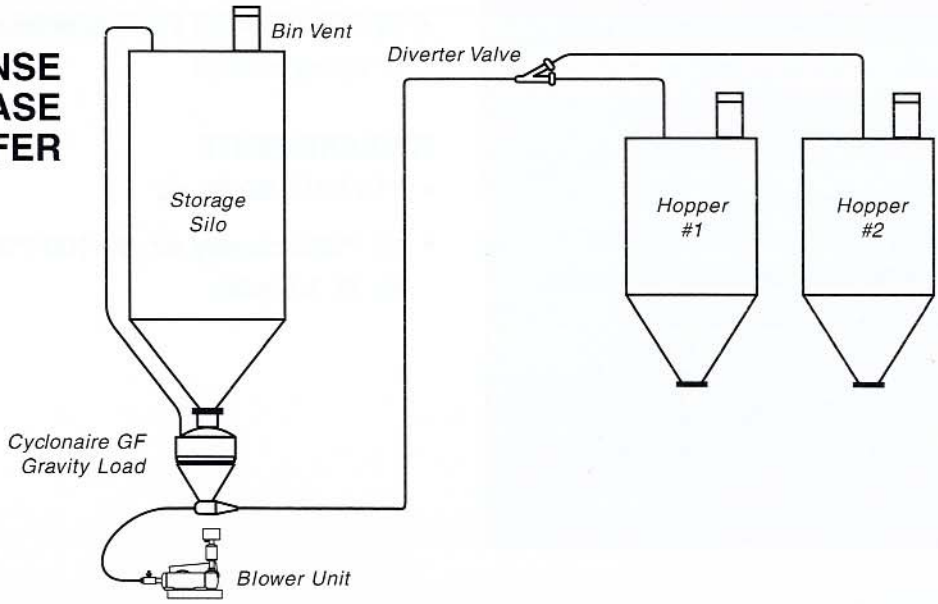
Consult factory for larger tank sizes available

Model Number	Volume Cu.Ft.	A	B	C	D	Air Inlet	Material Inlet	Discharge	Approx Wt.
GF-10	10	30	80	42	7	6	6	4, 5, 6	900
GF-30	30	42	100	35	7	6	8	5, 6, 8	1150
GF-50	50	60	125	35	7	6	8	6, 8, 10	1400

Note: Dimensional data for reference only. Subject to change without notice. All weights are in pounds. All dimensional units are in inches unless noted. Air inlet, material inlet, and discharge may vary per application. Series with connection-type dimensions based on MNPT outlet.



SEMI-DENSE PHASE TRANSFER



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