

# Gardner Denver

## CycloBlower® Transport Series Dry Bulk Truck Blowers



### 1. Double-End Driveshaft

- Permits either clockwise or counterclockwise drive rotation
- Allows for roadside or curbside installation with alternate air inlets

### 2. Lubrication System

- Proven results with inlet end bearings grease lubricated with relief fittings to prevent over-lubrication
- Discharge end bearings and gears lubricated by self-contained oil splash system

### 3. Bearings

- Inlet-end single-row cylindrical and ball bearings carry radial loads

### 4. Bearing Carriers

- Structurally designed and dowelled to housing to ensure proper alignment

### 5. Rotors

- Helical four-flute gate rotor and two-lobe main rotor with integral shafts for improved efficiency and greater capacity
- Rotors balanced to provide maximum efficiency and smooth operation

### 6. Housing

- One piece, high strength, precision machined casting ensures durability
- Resists deflection to retain precise running clearances between rotors
- Housing fitted with fusible plug in discharge port, indicates when accidental over-pressurization causes high discharge air temperatures
- Housing has alternate air inlet ports

### 7. Air Shaft Seals

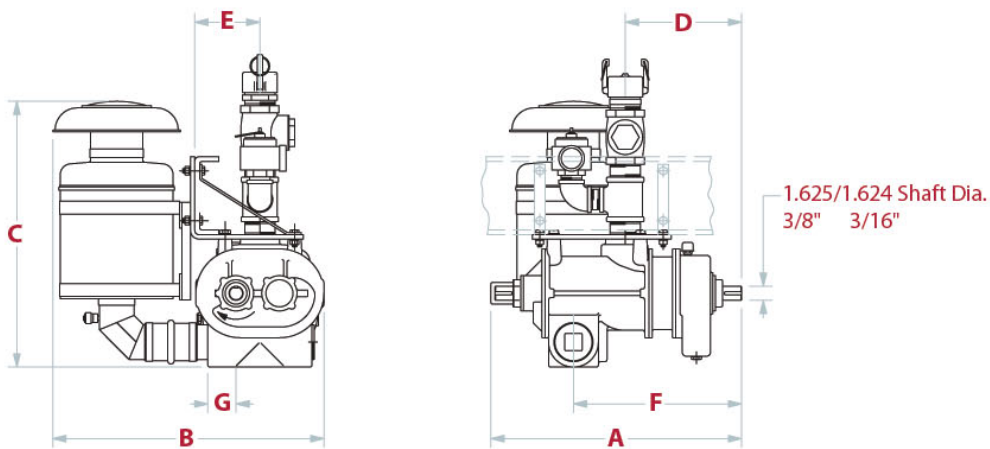
- Labyrinth design with bronze-filled Corrugand shaft seals ensures controlled minimal leakage of air

### 8. Bearings

- Discharge end angular-contact bearings provide proper axial and radial rotor positioning

### 9. Timing Gears

- Provide precise synchronization of the rotors
- Consists of two quiet-running, helical AGMA 12 alloy steel gears, precision hobbled and shaved



## Tractor Mounted Power-Take-Off Units

Model	Data Sheet Number	A	B	C	D	E	F	G	Weight
T5CDL9L	37-2-400	25.9	31.3	30.0	13.4	7.5	16.9	3.0	330 lbs.
T5CDL12L	37-2-420	28.9	31.3	30.6	13.4	7.5	19.4	3.3	417 lbs.
T5CDL12L92	37-2-244	28.9	31.3	30.6	15.2	7.5	19.4	3.3	406 lbs.
T5CDL13L	37-2-440	28.9	31.3	30.6	14.1	7.5	19.3	3.3	376 lbs.

Performances based on inlet air at standard temperature of 68°F, and ambient pressure of 14.7 psia and 36% relative humidity.  
Dimensions shown in inches. Weights as approximate.

## Performance Data Blowers for Power Take-off Drive

Model	RPM	PRESSURE PERFORMANCE						VACUUM PERFORMANCE						Size and Type Ports
		12 PSIG		16 PSIG		20 PSIG		12 "Hg		16 "Hg		17 "Hg		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
T5CDL9L Gate Rotor Drive	750	130*	15.0					130	7.0	80	9.5			3" NPT Both Ports
	1,000	220	19.0	200*	25.5			225	9.0	175	12.5			
	1,250	307	23.0	285	32.0	270*	37.0	315	11.5	270	15.5	225*	20.0	
	1,500	395	28.0	375	36.0	356*	44.0	410	13.5	365	20.0	320*	24.0	
	1,750	482	32.5	462	42.5	444*	52.0	500	16.0	460	22.0	420*	28.0	
	2,000	570	38.0	550	49.5	535*	61.0	595	18.0	555	25.0	515*	32.0	
T5CDL12 Gate Rotor Drive	750	190	17.0					170	9.0	110	11.0			4" NPT Inlet  3" NPT Discharge
	1,000	300	24.0	275	30.0			285	12.0	230	15.0			
	1,250	410	30.0	385	39.0	355*	48.0	400	15.5	350	19.0	295*	25.0	
	1,500	525	38.0	500	48.0	470*	59.0	510	18.0	465	23.0	415*	29.5	
	1,750	640	43.0	610	57.0	580*	70.0	625	21.5	585	27.0	535*	33.5	
	2,000	750	50.0	725	66.0	695*	81.0	740	24.5	705	31.0	655*	38.0	
T5CDL12L92 Gate Rotor Drive	1,200	388	28.9	359	37.4	331*	44.8	364	14.2	311	17.9			4" NPT Both Ports
	1,800	659	44.1	630	58.2	601*	71.6	641	20.8	587	27.1	574*	36.1	
	2,500	974	64.2	946	85.9	917*	107.3	964	29.6	910	39.2	897*	51.6	
T5CDL13 Gate Rotor Drive	750	200	18.5					180	9.5	120	12.0			4" NPT Both Ports
	1,000	325	25.0	295	34.2			300	13.0	246	16.0			
	1,250	450	32.0	420	43.0	390*	55.0	425	16.5	370	20.5	325*	25.5	
	1,500	575	39.0	545	51.0	510*	63.5	545	20.0	500	24.5	450*	30.5	
	1,750	700	46.2	670	59.6	635*	72.2	670	23.5	625	29.0	575*	35.0	
	2,000	825	54.0	795	68.0	755*	81.0	790	27.0	750	33.0	700*	40.0	

Performances based on inlet air at standard temperature of 68°F, and ambient pressure of 14.7 psia and 36% relative humidity.

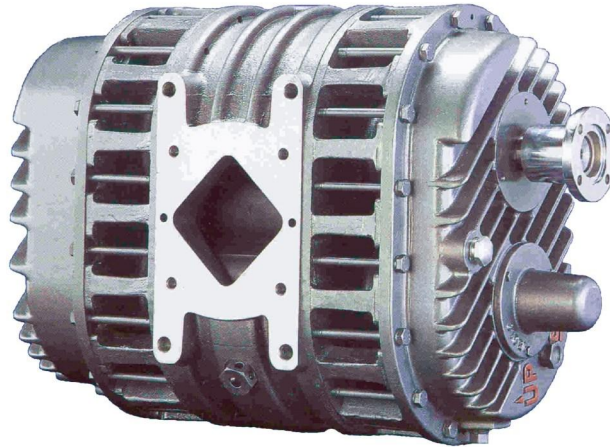
\* Recommended at intermittent service

# Gardner Denver



## **D807 & D907**

Dry Bulk Truck Blowers



### Features

- Up to 20 psig continuous duty pressure rating (D807 only)
- Oil lubrication at both ends reduces bearing temperature and eliminates the need for greasing
- Diamond port design greatly reduces noise and airflow pulsations
- Heat dissipation ribbing on body, end plates, and gear cases provides cooler discharge temperatures and allows for tighter tolerances
- Easy Installation with vertical mounting kit
- Twin drive shaft offers either direction of rotation and ensures correct alignment of drive shaft upon installation
- Packaged units available for on-site product transfer requirements through dedicated distributor networks

### Over Temperature & Over Pressure Protection

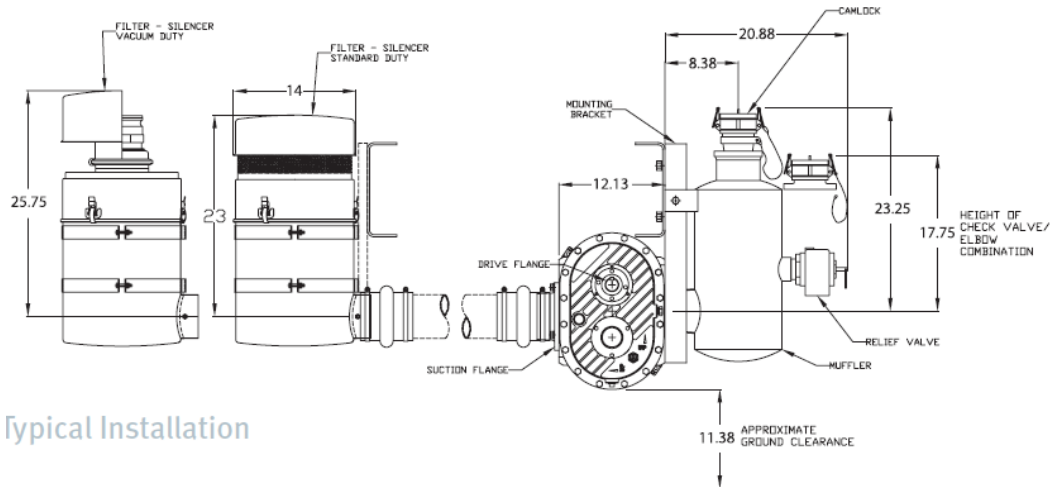
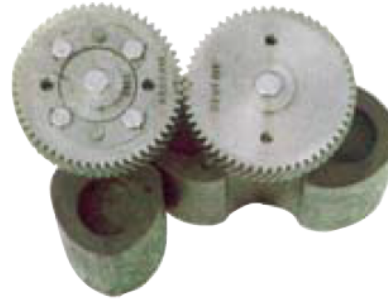
- Plug relieves 5–6 psi along with a 60–80° F drop in temperature, allows continued operation at lower pressure
- One plug fitted on suction side and one on the delivery side
- Reduces the likelihood of accidental overheating
- Consistent release temperature from each plug
- Visual activation indicator



- Visual activation indicator

## Geared for Higher Efficiency

- Dynamically balanced efficient rotors for cooler operation
- Precision ground helical gears keyed to shaft provide positive timing and easy maintenance



## D807 Performance Specifications

Pressure	1800 RPM		2000 RPM		2200 RPM		2400 RPM		2600 RPM		2800 RPM		3000 RPM	
PSI	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP
2	578	8	650	9	722	9	794	10	864	11	936	12	1010	13
4	548	13	620	15	692	16	764	17	838	20	910	21	983	23
6	525	19	597	21	669	23	741	25	812	28	884	30	956	32
8	506	24	578	27	650	30	722	32	794	36	865	39	937	42
10	489	30	561	34	633	37	705	40	776	44	846	47	918	51
12	473	36	545	40	618	44	690	48	760	52	831	56	903	61
14	459	42	531	46	603	51	676	56	744	60	816	65	888	71
16	446	47	518	52	590	58	662	63	730	69	803	74	875	80
18	435	53	508	59	580	65	652	71	716	77	790	83	862	89
20	424	59	496	65	568	72	640	78	706	85	778	92	850	98

Vacuum	1800 RPM		2000 RPM		2200 RPM		2400 RPM		2600 RPM		2800 RPM		3000 RPM	
IN HG	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP
2	600	5	693	5	736	6	812	7	884	7	956	8	1030	9
4	573	8	656	8	714	10	788	11	852	11	934	12	1006	13
6	545	10	618	11	691	13	764	14	820	15	912	16	982	17
8	527	13	600	14	673	17	742	18	809	19	891	21	962	22
10	509	16	582	17	654	20	720	21	798	23	870	25	942	27
12	482	19	559	21	632	23	697	25	775	27	847	30	919	32
14	454	21	536	24	609	26	673	28	752	31	824	34	896	36
16	436	22	515	27	571	29	655	31	732	34	803	38	875	40
17	418	25	494	29	538	31	636	34	712	37	782	41	854	43

Performances based on inlet air at standard temperature of 68°F, and ambient pressure of 14.7 psia and 36% relative humidity. Dimensions shown in inches.



# Gardner Denver



**HPD450/E490**

Dry Bulk Truck Blowers

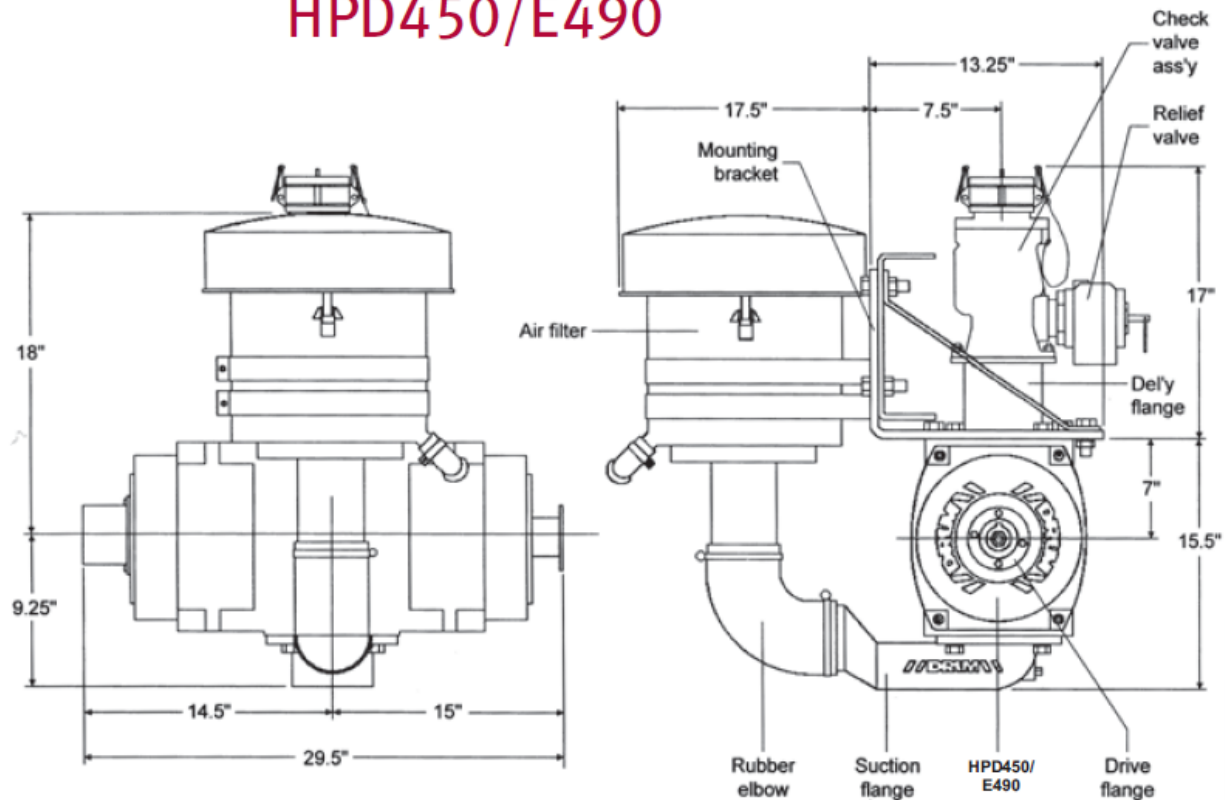


## Features

- Robust, economical, compact solution for high performance offloading of dry bulk materials
- Efficient sliding vane blower can be configured for mobile or stationary operation
- Provides completely oil-free air delivery for pneumatically conveying cement, lime, gypsum or other bulk materials
- Installation flexibility—double end shaft allows clockwise or counter-clockwise rotation
- Highest quality, nickel-chrome plated rotor and PTFE coated side plates for corrosion-free operation add to the durability
- Special carbon sliding vanes automatically adjust for wear providing continuous maximum performance
- Lower rotor speed and efficient design generate less heat allowing for a longer blower and discharge hose life
- Grease packed roller bearings require minimal maintenance and the Quick Strip Design™ allows for easy vane servicing in the field
- Includes a K1310 drive flange and mounting bolts capable of being driven directly, by PTO, belt or hydraulic drive
- Low noise operation, which allows for no ear protection during normal operation and an installation without the use of a muffler for reduced total weight

# Installation Dimensions

## HPD450/E490



## HPD450/E490\* Performance Data – PTO Drive

PRESSURE	800 rpm		1000 rpm		1200		1400 rpm		1600 rpm	
PSI	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP
0	163	9	200	13	240	17	280	20	325	25
5	140	10	190	14	230	19	275	23	320	28
10	142	13	180	17	225	21	270	25	315	30
15	135	14	175	19	220	23	265	28	310	32
20	130	16	170	21	215	26	260	31	300	35
25	125	19	165	25	210	28	255	33	295	37
30**	125	21	175	27	213	30	255	35	295	41

Performances based on inlet air at standard temperature of 68°F, and ambient pressure of 14.7 psia and 36% relative humidity. Dimensions shown in inches.

\*Export only. \*\*E490 only.