Installation and Operation Manual

P858

P858e

P1057

Truck Blower

601-020
601-020E
601-021

PARAGON®

PRGMAN-01
Version: D
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Table of Contents

Safety Notice

Safety Precautions

- Rotating shafts can be dangerous. You can snag clothes, skin, hair, and hands. This can cause severe injury or death.
- Do not work under the vehicle when the engine is running.
- Do not work on a shaft (with or without guard) when the engine is running.
- If the power take off and/or shaft are still exposed after installation, install a guard.
- Install a support strap when servicing a drive shaft to prevent personal injury.
- A serious or fatal injury can occur.
  - If you lack proper training.
  - if you fail to follow proper procedures.
  - if you do not use proper tools and safety equipment.
  - if you assemble driveline components improperly.
  - if you use incompatible driveline components.
  - if you use worn-out or damaged driveline components.
  - if you use driveline components in a non-approved application.
- This manual contains safety instructions.

  Read, understand and follow this manual.
  - Get proper training.
  - Learn and follow safe operating procedures.
  - Use proper tools and safety equipment.
  - Use proper components in good condition.

Safety Check List

Complete prior to blower operation

Truck # _____

Transmission # _____

PTO # _____

PTO Ratio _____

Blower model # _____

Blower serial # _____

Date _____

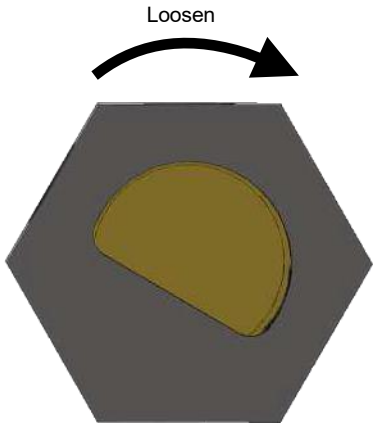
Inspected by _____

- Is PTO ratio, torque and rotation correct?
- Mount PTO as per manufacturer's recommendations and refill transmission.
- Ensure oil level is at the center of the sight glasses.
- Driveline installed correctly and blower can be rotated by hand.
- Air inlet filter is connected and mounted away from tractor exhaust.
- Remove camlock dust cap, discharge pipework open to atmosphere.
- Tractor engine at idle. Slowly engage PTO Check for correct rotation and airflow.
- Slowly take blower up to operating speed.
- Check for vibration, mechanical noise, oil leaks and mounting integrity.
- Stop blower. Connect blower discharge hose to trailer and run blower at operating pressure of trailer (15 psi) for 15 minutes at normal speed.
- Does relief valve allow 15 psi tank pressure?
- Does engine maintain correct RPM throughout the test?
- Turn off truck engine, wait for blower to stop turning. Check fusible plugs, relief valve, filter, pipework and oil sumps for integrity.
- Is correct engine speed label visible in cab?
- Install driveline warning labels to both sides of the frame.

Melt Plug Information

The fast-acting melt plug is designed to reduce the blower operating pressure and temperature when the machine is operated beyond its limits.

Vacuum applications require a vacuum valve for blower protection.



Left Hand Thread

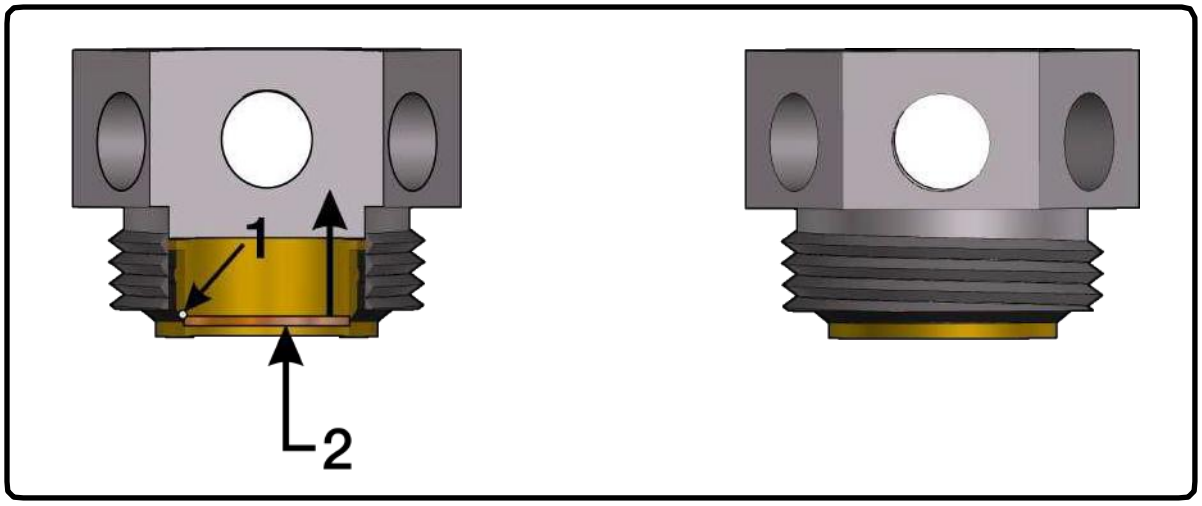
There are two plugs located near the blower flanges. When the blower is operated beyond its operating range, the following will happen:

- The temperature increases.
- The solder ***(Figure 1, Reference # 1)*** melts.
- The thin disc ***(Figure 1, Reference # 2)*** is released.
- Pressure drops 4-6 psi at 1800 RPM.
- Audible sound from the plug alerts the driver of a problem.
- Operator should shut down blower and try to locate the problem.
- When the problem is corrected, operator can fit a new plug (left hand thread) or use the plug from the suction side of the machine.

Note: Replace blown melt plugs immediately to prevent further damage to the blower. Do not re-install blown melt plugs.

Caution: DO NOT operate blower after a melt plug has blown. At least one melt plug must be installed on each blower port side.

Fig. 1

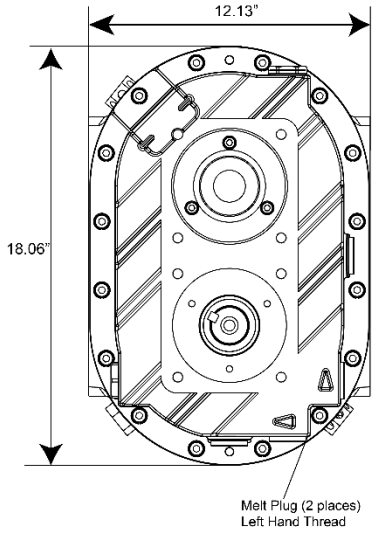


Caution: If problem cannot be corrected, do not increase blower speed as this can cause further damage to the blower. This overheating condition should be reported to the maintenance department immediately.

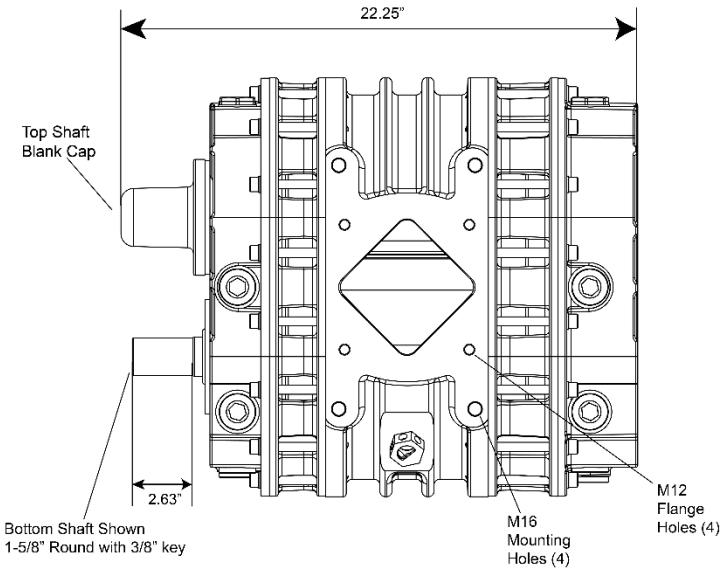
P858 Blower Specifications

	Airflow CFM	Max. Pressure	Max. Vacuum	Speed Range	Weight (No Oil)
P858	390-1000	20 PSI *(See Note 1)*	17" of Hg	1800-3000 RPM *(See Note 2)*	340 lbs

Front



Side



Performance Chart for Power Take-Off Operation

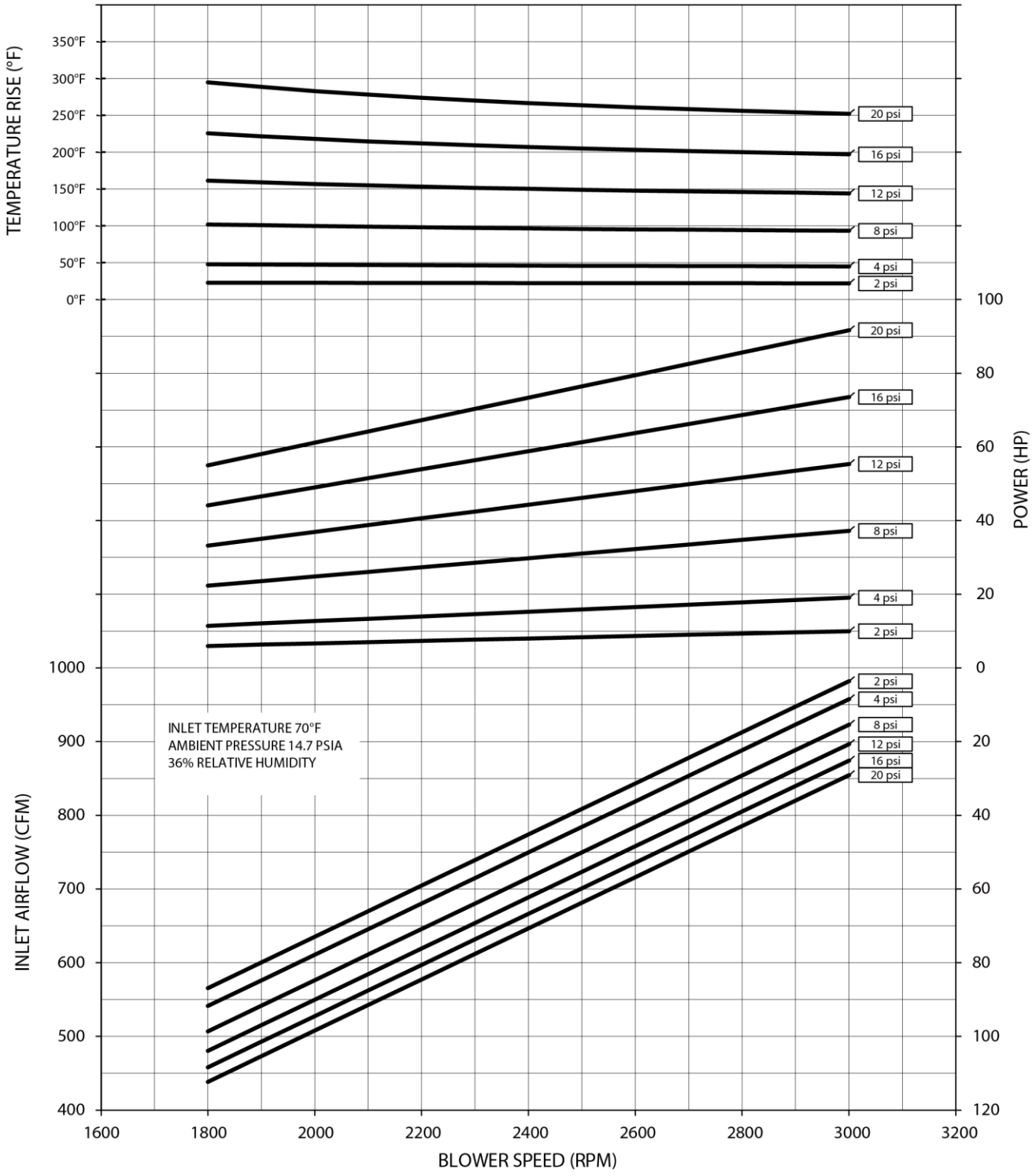
Blower Speed RPM	Pressure Performance and Horsepower								Vacuum Performance and Horsepower					
	12 PSIG		15 PSIG		18 PSIG		20 PSIG		12" Hg		15" Hg		17" Hg	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1800	479	33	462	42	447	50	437	55	493	17	464	21	440	23
1900	514	35	497	44	482	52	472	58	528	18	498	22	475	25
2000	549	37	532	46	516	55	507	61	563	18	533	23	510	26
2100	584	39	566	49	551	58	541	64	597	19	568	24	545	27
2200	618	41	601	51	586	61	576	68	632	20	602	25	579	28
2300	653	43	636	53	620	64	611	71	667	21	637	26	614	30
2400	688	45	671	56	655	66	645	74	701	22	672	27	649	31
2500	722	47	705	58	690	69	680	77	736	23	707	29	683	32
2600	757	48	740	60	724	72	715	80	771	24	741	30	718	34
2700	792	50	775	63	759	75	750	83	806	25	776	31	753	35
2800	826	52	809	65	794	78	784	86	840	26	811	32	787	36
2900	861	54	844	67	829	81	819	89	875	27	845	33	822	38
3000	896	56	879	70	863	83	854	92	910	28	880	34	857	39

(See Note 2)

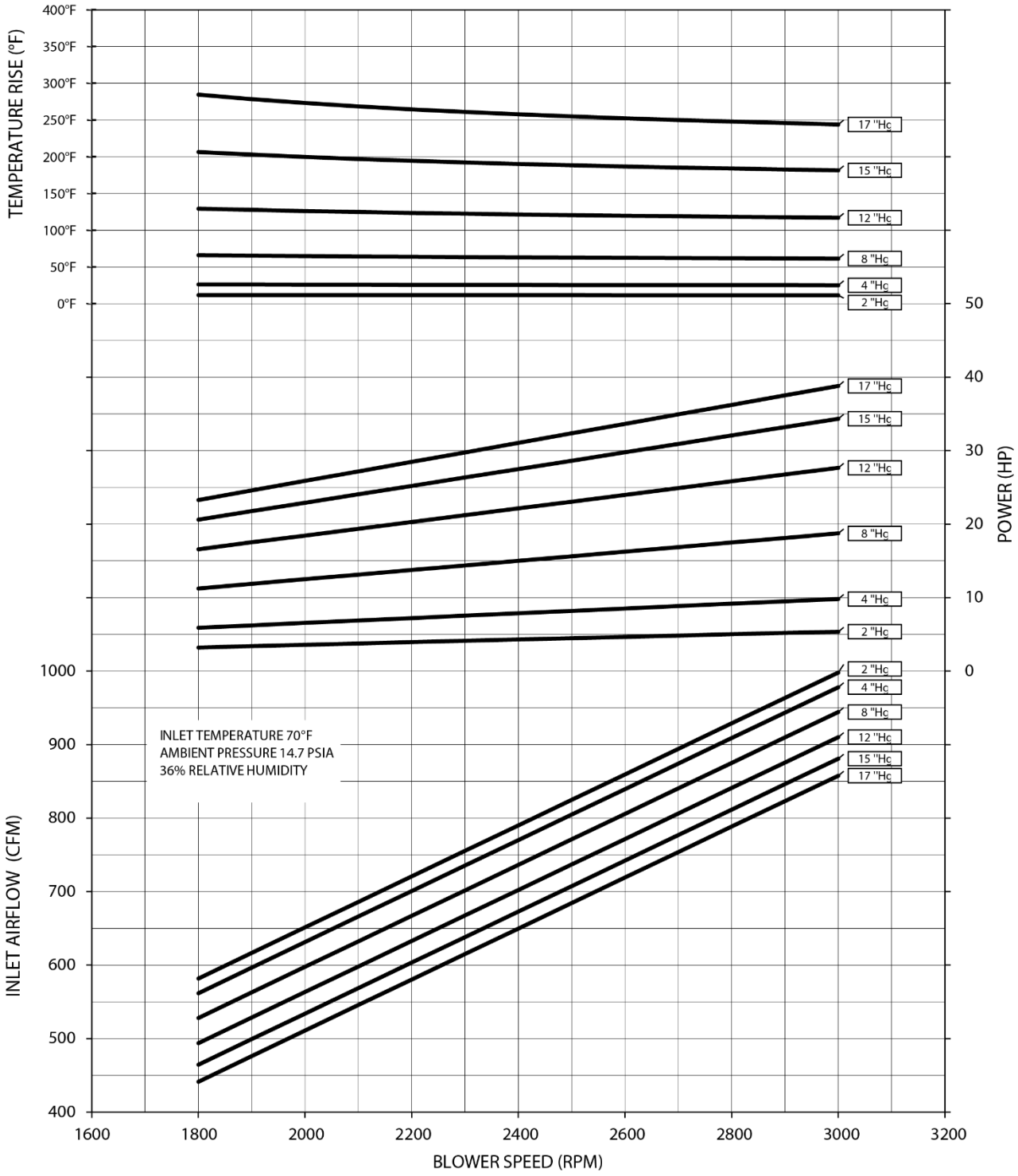
Note:

1) Reduce the maximum operating pressure by 1 psi for every 2000 feet of altitude above sea level. (Example: at an altitude of 4000 feet, the maximum working pressure of the blower will decrease by 2 psi).
2) Check PTO manufacturer's max RPM.

P858 Pressure Performance Curve



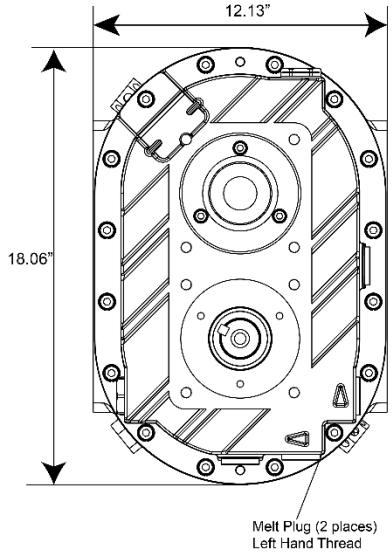
P858 Vacuum Performance Curve



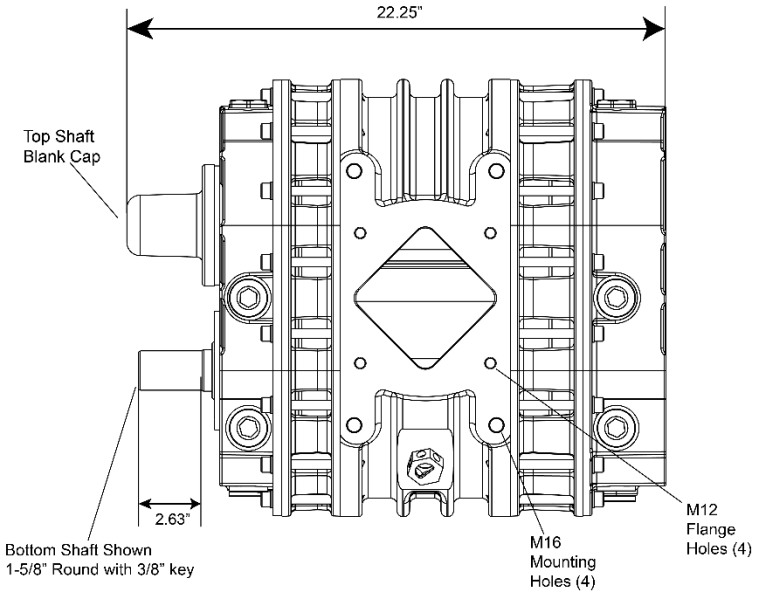
P858e Blower Specifications

	Airflow CFM	Max. Pressure	Max. Vacuum	Speed Range	Weight (No Oil)
P858e	75-1020	20 PSI *(See Note 1)*	18” of Hg	600-3000 RPM *(See Note 2)*	340 lbs

Front



Side



Performance Chart for Power Take-Off Operation

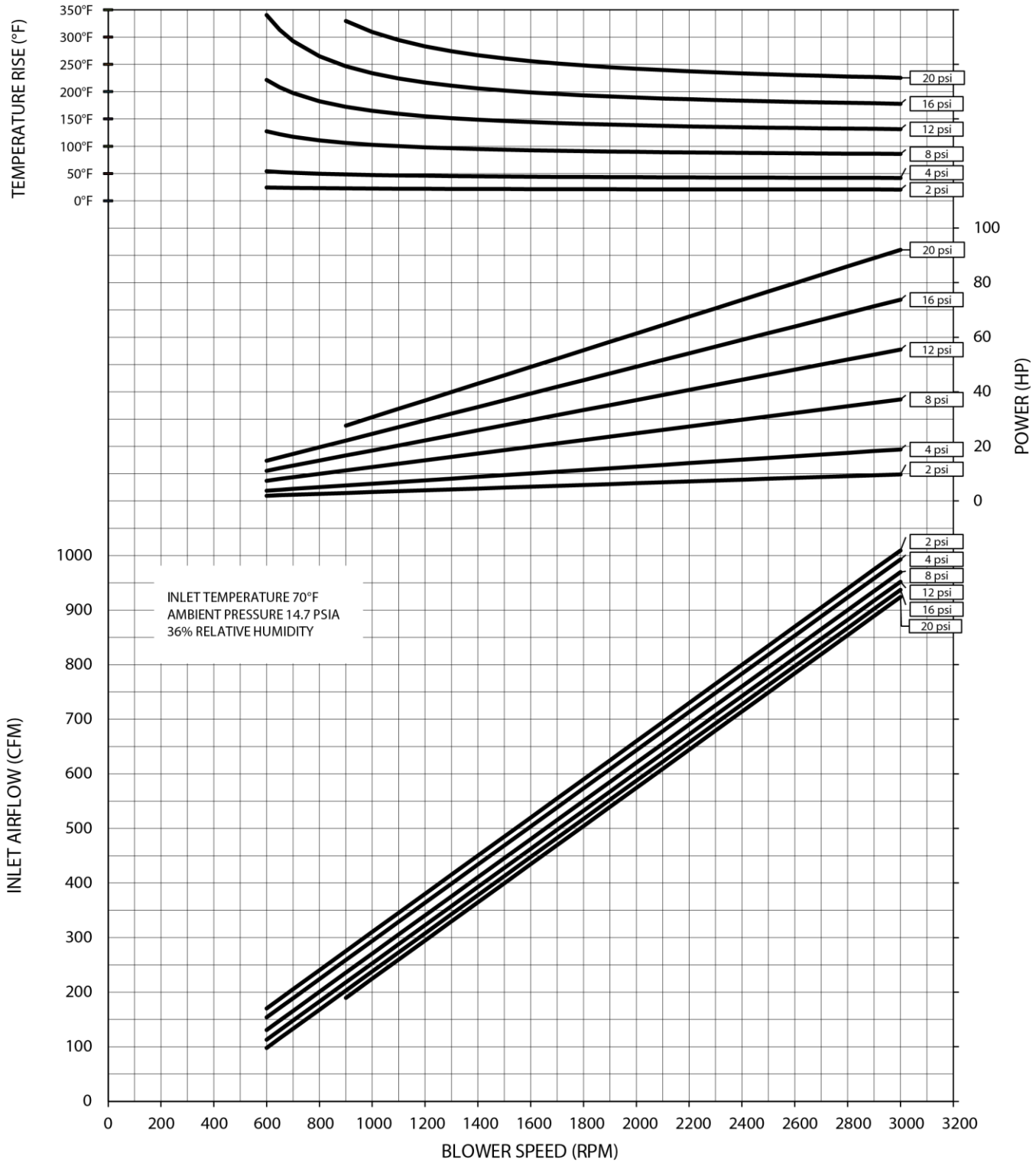
Blower Speed RPM	Pressure Performance and Horsepower										Vacuum Performance and Horsepower							
	6 PSIG		10 PSIG		14 PSIG		18 PSIG		20 PSIG		8" Hg		12" Hg		16" Hg		18" Hg	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
600	141	6	121	9	105	13	-	-	-	-	145	4	122	6	-	-	-	-
700	176	7	156	11	140	15	126	19	-	-	180	4	157	6	130	9	-	-
800	211	7	191	12	175	17	161	22	-	-	215	5	192	7	165	10	-	-
900	246	8	226	14	210	19	196	25	190	28	250	6	227	8	200	11	-	-
1000	281	9	261	15	245	22	231	28	225	31	285	6	262	9	235	12	-	-
1100	316	10	296	17	280	24	266	30	260	34	320	7	297	10	270	13	253	15
1200	351	11	331	19	315	26	301	33	295	37	355	7	332	11	305	15	288	16
1300	386	12	366	20	350	28	336	36	329	40	390	8	367	12	340	16	323	18
1400	421	13	401	22	385	30	371	39	364	43	425	9	402	13	375	17	358	19
1500	456	14	436	23	420	32	406	41	399	46	460	9	437	14	410	18	393	21
1600	491	15	471	25	455	34	441	44	434	49	495	10	472	15	445	19	428	22
1700	526	16	506	26	490	37	476	47	469	52	530	11	507	16	480	21	463	23
1800	561	17	541	28	525	39	511	50	504	55	565	11	542	17	514	22	498	25
1900	596	18	576	29	560	41	546	53	539	58	600	12	577	17	549	23	533	26
2000	631	19	611	31	595	43	581	55	574	61	635	12	612	18	584	24	568	27
2100	666	20	646	32	630	45	616	58	609	64	670	13	647	19	619	26	603	29
2200	701	21	681	34	665	47	651	61	644	68	705	14	682	20	654	27	638	30
2300	736	22	716	36	700	50	686	64	679	71	740	14	717	21	689	28	673	31
2400	771	22	751	37	735	52	721	66	714	74	774	15	752	22	724	29	707	33
2500	806	23	786	39	770	54	756	69	749	77	809	15	786	23	759	30	742	34
2600	841	24	821	40	805	56	791	72	784	80	844	16	821	24	794	32	777	36
2700	876	25	856	42	840	58	825	75	819	83	879	17	856	25	829	33	812	37
2800	911	26	891	43	874	60	860	77	854	86	914	17	891	26	864	34	847	38
2900	946	27	926	45	909	62	895	80	889	89	949	18	926	27	899	35	882	40
3000	981	28	961	46	944	65	930	83	924	92	984	19	961	28	934	37	917	41

(See Note 2)

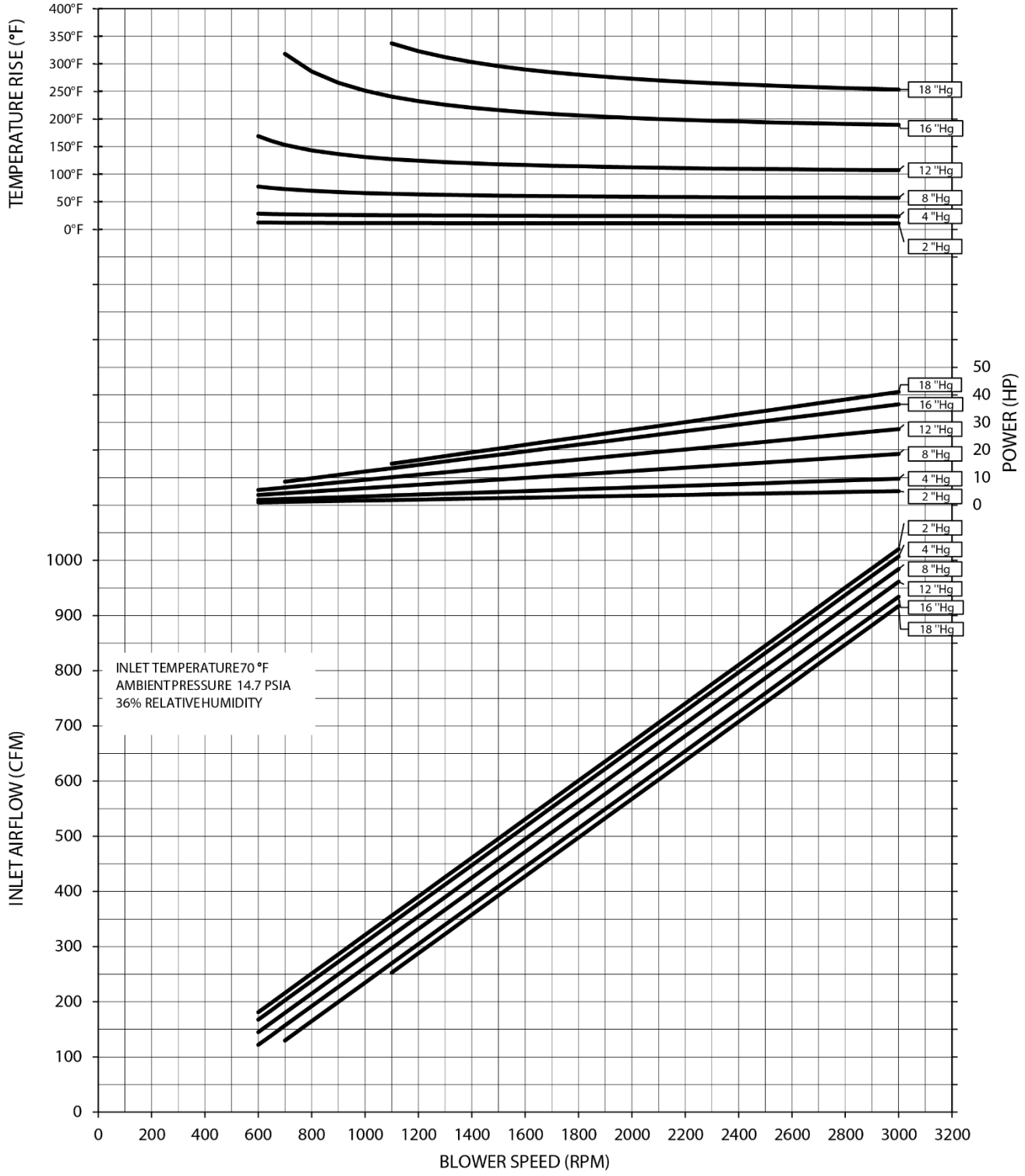
Note:

1) Reduce the maximum operating pressure by 1 psi for every 2000 feet of altitude above sea level.
(Example: at an altitude of 4000 feet, the maximum working pressure of the blower will decrease by 2 psi).
2) Check PTO manufacturer's max RPM.

P858e Pressure Performance Curve



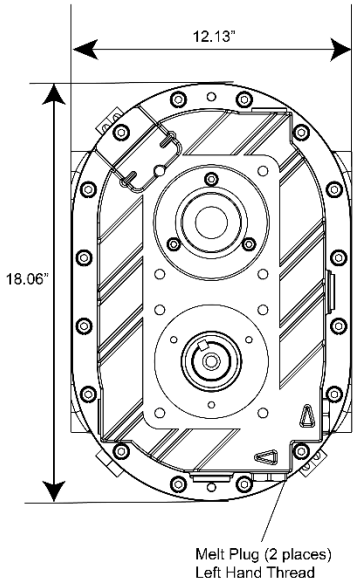
P858e Vacuum Performance Curve



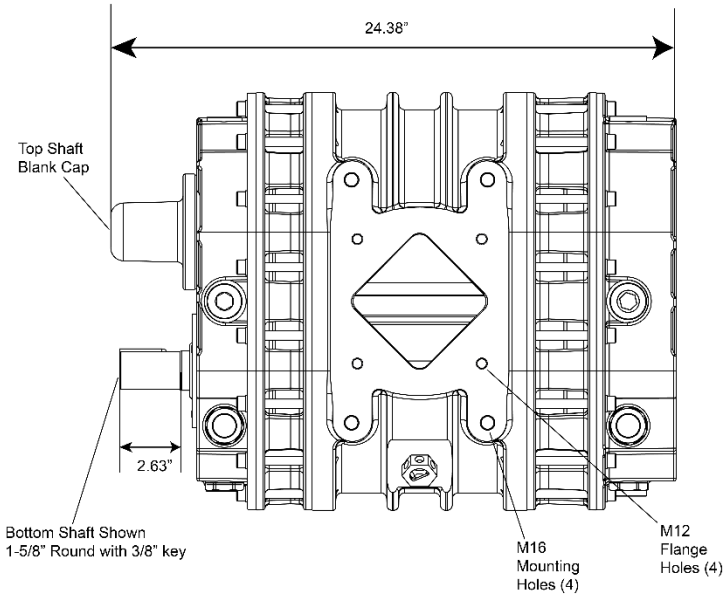
P1057 Blower Specifications

	Airflow CFM	Max. Pressure	Max. Vacuum	Speed Range	Weight (No Oil)
P1057	535-1340	19 PSI *(See Note 1)*	17" of Hg	1700-3000 RPM *(See Note 2)*	402 lbs

Front



Side



Performance Chart for Power Take-Off Operation

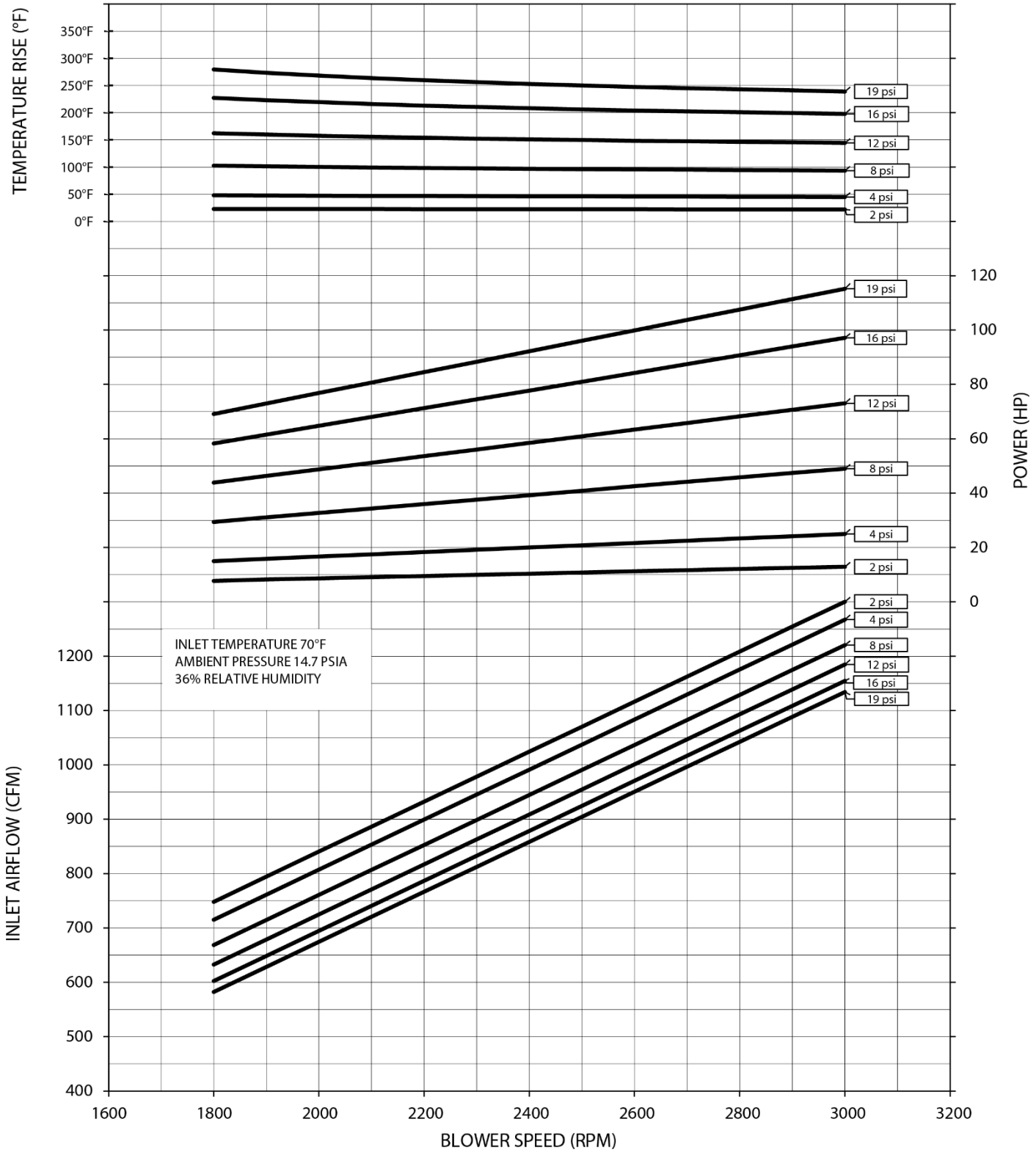
Blower Speed RPM	Pressure Performance and Horsepower								Vacuum Performance and Horsepower					
	12 PSIG		16 PSIG		18 PSIG		19 PSIG		12" Hg		15" Hg		17" Hg	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1700	587	42	556	55	543	62	536	66	605	22	565	27	534	31
1800	633	44	602	59	589	66	582	69	651	22	611	27	580	31
1900	679	47	648	62	635	70	628	73	697	23	657	29	626	32
2000	725	49	694	65	681	73	674	77	743	24	703	30	672	35
2100	771	52	740	69	727	77	720	81	789	25	749	32	718	36
2200	817	54	786	72	773	81	766	85	835	27	795	33	764	38
2300	863	57	832	75	819	84	812	89	881	28	841	35	810	39
2400	909	59	878	79	865	88	858	93	927	29	887	36	856	41
2500	955	61	924	82	911	92	904	97	973	30	933	38	902	43
2600	1001	65	970	85	957	96	950	101	1019	32	979	39	948	44
2700	1047	67	1016	89	1003	100	996	105	1065	33	1025	41	994	46
2800	1093	70	1062	92	1049	103	1042	109	1111	34	1071	42	1040	48
2900	1139	72	1108	96	1095	107	1088	113	1157	35	1117	44	1086	50
3000	1185	75	1154	99	1141	111	1134	117	1203	36	1163	45	1132	51

(See Note 2)

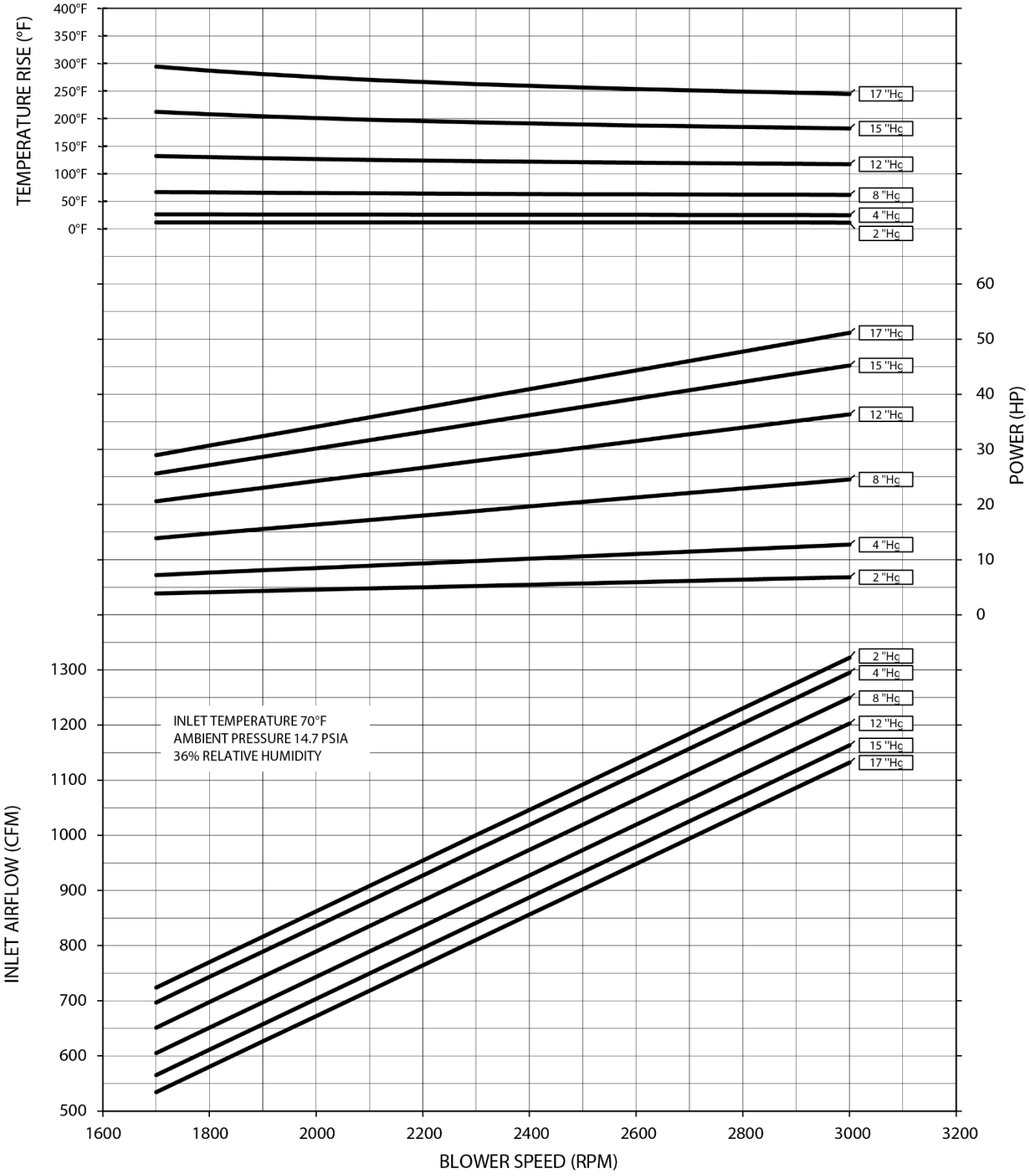
Note:

1) Reduce the maximum operating pressure by 1 psi for every 2000 feet of altitude above sea level. (Example: at an altitude of 4000 feet, the maximum working pressure of the blower will decrease by 2 psi).
2) Check PTO manufacturer's max RPM.

P1057 Pressure Performance Curve



P1057 Vacuum Performance Curve



Mounting the P858, P858e & P1057 Blower

Caution:

Incorrect equipment will cause blower failure. If you are not using a Paragon kit, the following accessories should be installed.

Power Take Off For Transmission

- Horsepower and torque rating must be adequate for blower RPM and pressure.
- Select ratio for required engine speed and correct blower shaft speed.

Constant Engine Speed

- The selected engine speed must remain constant throughout the blower discharge cycle. This requires ECM programming or a trouble control system.
- Program ECM for max 100 RPM "ramp rate" per second.

Relief Valve

- Sized for correct CFM and blower pressure rating.
- Installed on delivery side before check valve.
- Use pipe compound on male pipe thread of relief valve.
- **DO NOT** use thread tape.

Air Filter

- Sized for correct CFM to suit application.

  Caution: *An undersized filter will cause immediate overheating of blower. The filter should not exceed 17" water restriction. Do not mount air inlet of the filter close to truck exhaust. This will increase the blower operating temperatures above the maximum limits.*

Suction Delivery and Pipework

- Should be free of weld beads and foreign metal.
- During vacuum applications, ***NEVER*** **use rubber elbows without internal support.** ***Rubber elbows will collapse under vacuum, restricting the airflow to the P858/P858e/P1057, and causing the P858/P858e/P1057 to overheat.***

Mounting Bracket

- Strong enough to support blower weight and torque
- Allow a minimum of 1/2" clearance between the blower and frame rail (or other non-moveable object) to prevent damage to the blower.

Check Valve

- Sized for maximum CFM with minimal restriction.
- Should have at least (1) check valve mounted on the trailer at the hot air hose connection.
- Must be inspected periodically for damage.

Mufflers

- Sized for maximum CFM with minimal restriction.
- Mounted downstream of the relief valve.
- Stainless steel is required for sensitive product applications

Vacuum Relief Valve (Tractor Mounted)

- Sized for correct CFM (Not to exceed 15" of Hg).
- This valve needs to be installed between the P858/P858e/P1057 Blower filter and the P858/P858e/P1057 inlet.
- Must be fitted with a separate filter element to prevent Blower damage when it opens.

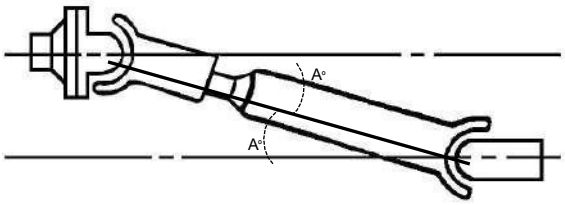
Note: *When vacuum loading it is important that a vacuum relief valve is installed within the system.*

PTO Drive Shaft Single Piece

- Blower shaft must be parallel with the PTO shaft axis within +/- 1 degree to minimize vibration.
- Use tubular, balanced drive shaft.
- Do not force end yokes into Blower or PTO shaft.
- Blower shaft is 1-5/8" dia. with 3/8" key.
- Maximum driveline working angle - see table below:

Maximum Driveline Working Angle

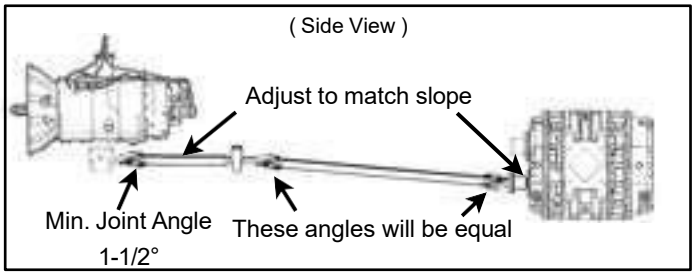
Speed	Angle "A"
3000 RPM	5 degrees
2500 RPM	7 degrees
2000 RPM	8 degrees
1800 RPM	9.5 degrees

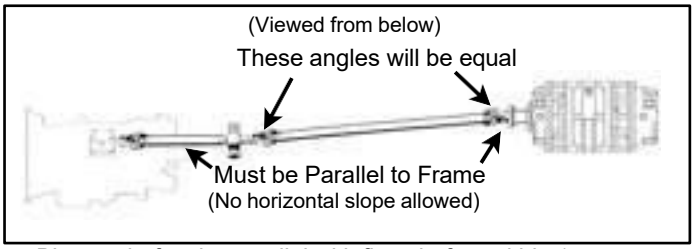


PTO Drive Shaft Two Piece

- **Consult local driveline specialist prior to operation**

Typical P858/P858e/P1057 Horizontal Installation





- Blower shaft to be parallel with first shaft to within 1 degree.

Mounting Plane

- Blower can mount in two planes for horizontal and vertical airflow.

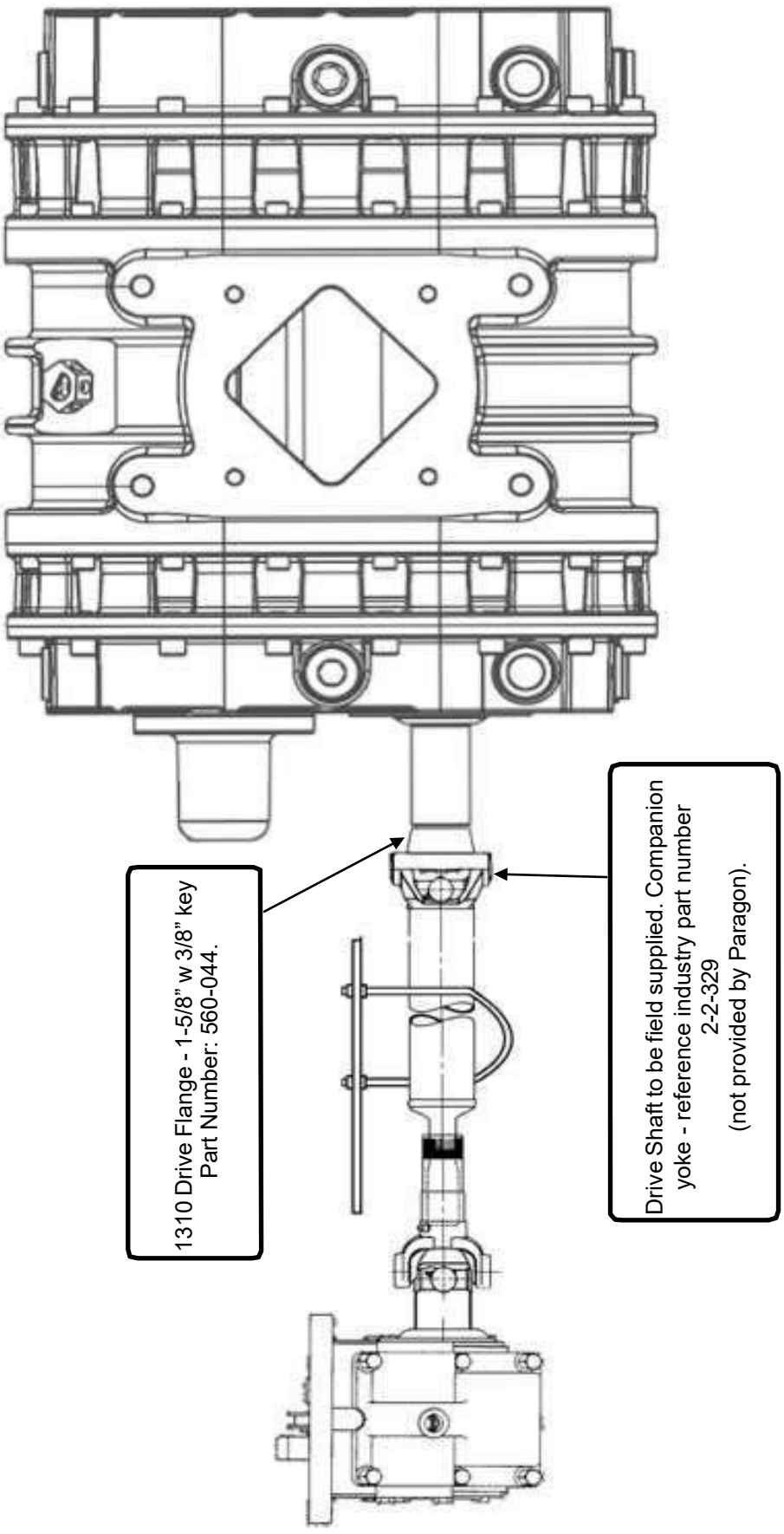
Note:

1. ***Pre-cleaners are not recommended.***
2. ***Use only packing-free stainless steel mufflers for contamination sensitive products.***

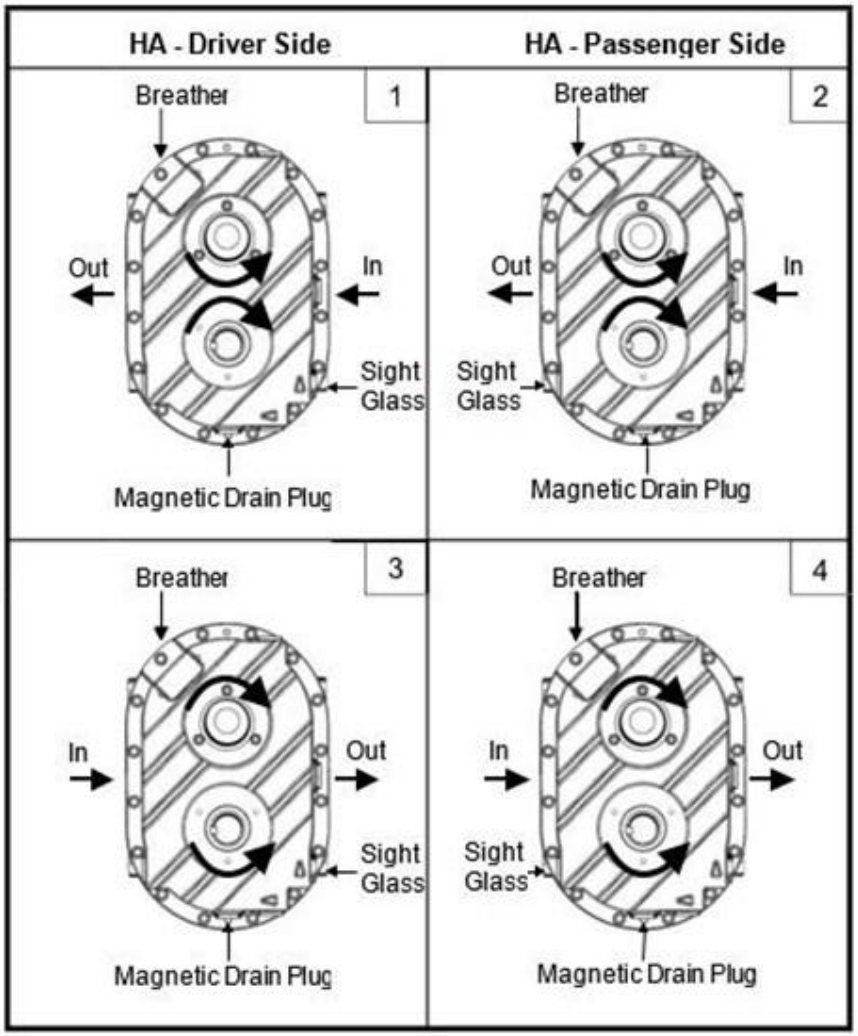
Belt Drive

- Blower shaft must be parallel to powered shaft.
- Blower and motor pulleys must be parallel with planes within 1/16”.
- Verify that belt sheaves are aligned on shafts.
- Position belt sheaves as far onto the shaft as possible (closer to the blower cover).
- Follow all the belt manufacturer’s recommended specifications and recommended belt tension.
- When using multiple belts, only use identical belt sets. Replace belts with complete sets.
- Check and readjust belt tension after the first 3 hours of operation or 48 hours after the initial installation (whichever occurs first).
- Do not exceed maximum allowable moment when performing an overhung installation. If the maximum allowable moment will be exceeded, a jackshaft with a bearing on each side of the belt sheave must be used.

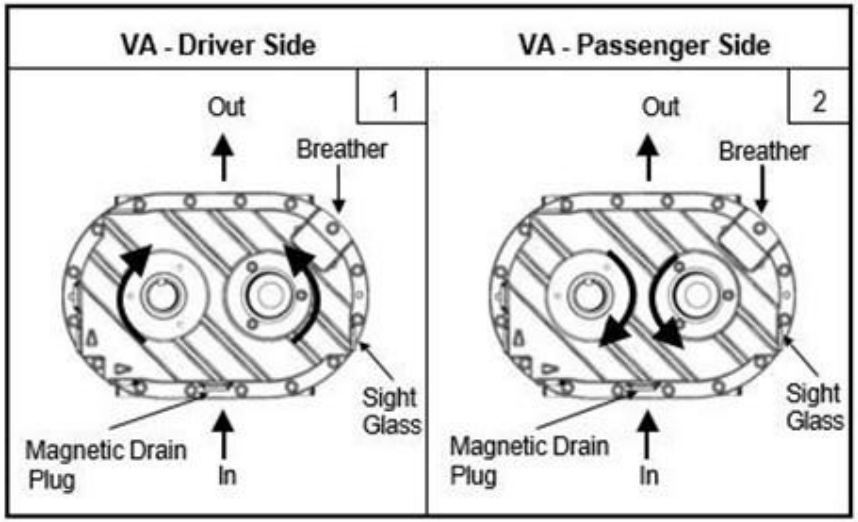
Caution: Overtightening belts or exceeding maximum allowable moment will lead to reduced blower life.


1310 Drive Flange - 1-5/8" w 3/8" key
Part Number: 560-044.
Drive Shaft to be field supplied. Companion yoke - reference industry part number 2-2-329
(not provided by Paragon).

Horizontal Airflow - HA



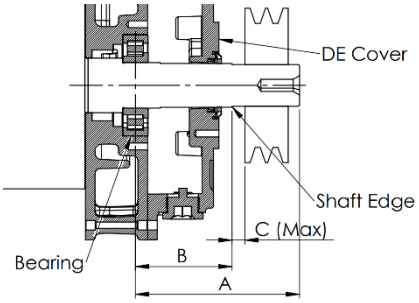
Vertical Airflow - VA



NOTE: Sight glasses and magnetic drain plugs will need to be re-positioned prior to installation and/or filling with oil.
All models are shipped in the "2" Orientation.

Model	Dimensions (Inches)			Maximum Allowable Moment (in*lb)
	A	B	C (Max)	
P858/P858e	6.38	3.76	0.5	4,400

MAXIMUM ALLOWABLE MOMENT



DRIVE SHAFT ILLUSTRATION

Z	Ac	Z	Ac	Z	Ac	Z	Ac	Z	Ac	Z	Ac
0.000	1.000	0.250	0.966	0.500	0.926	0.750	0.879	1.000	0.823	1.250	0.751
0.025	0.997	0.275	0.962	0.525	0.922	0.775	0.874	1.025	0.816	1.275	0.742
0.050	0.994	0.300	0.958	0.550	0.917	0.800	0.869	1.050	0.810	1.300	0.734
0.075	0.990	0.325	0.954	0.575	0.913	0.825	0.864	1.075	0.803	1.325	0.725
0.100	0.987	0.350	0.951	0.600	0.908	0.850	0.858	1.100	0.796	1.350	0.716
0.125	0.983	0.375	0.947	0.625	0.904	0.875	0.852	1.125	0.789	1.375	0.706
0.150	0.980	0.400	0.943	0.650	0.899	0.900	0.847	1.150	0.782	1.400	0.697
0.175	0.977	0.425	0.939	0.675	0.894	0.925	0.841	1.175	0.774	1.425	0.687
0.200	0.973	0.450	0.935	0.700	0.889	0.950	0.835	1.200	0.767		
0.225	0.969	0.475	0.930	0.725	0.884	0.975	0.829	1.225	0.759		

ARC OF CONTACT FACTORS

$$\text{Belt Pull} = \left[\frac{2.5 - Ac}{Ac}\right] \left[\frac{125954 \times Hp \times S.F.}{D \times RPM}\right]$$

Key:
- AC = Arc of Contact Factor (Refer to Arc of Contact Factor Chart above)
- Hp = Blower Horsepower for Operating Conditions
- S.F. = Drive Service Factor (use 1.4 S.F. for continuous duty applications)
- D = Blower Sheave Pitch Diameter in Inches
- RPM = Blower Sheave Speed
- Z = $\frac{\text{Large Sheave Pitch Diameter (in)} - \text{Small Sheave Pitch Diameter (in)}}{\text{Sheave Center Distance (in)}}$

CALCULATION OF BELT PULL

$$\text{Shaft Moment (LB-IN)} = \text{Belt Pull} \times \left[B + C + \left(\frac{\text{Sheave Width}}{2}\right)\right]$$

CALCULATION OF SHAFT MOMENT

V-BELT DRIVE OVERHUNG LOAD CALCULATION

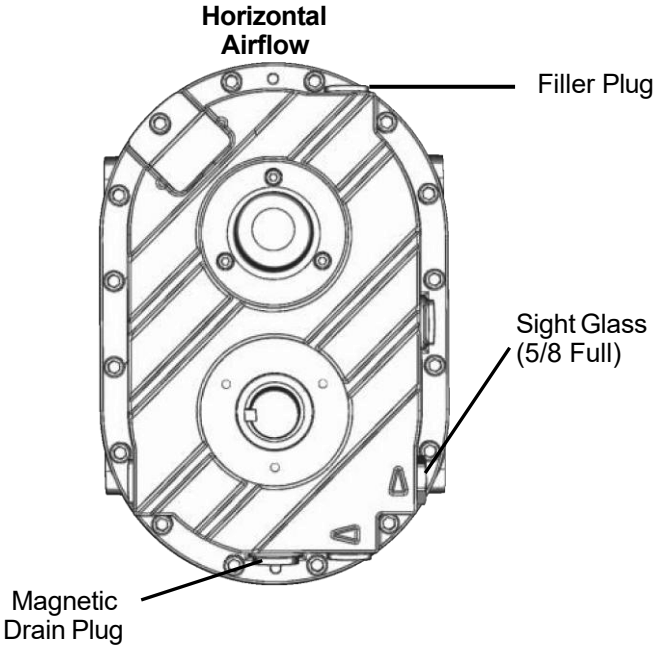
Note: it is not recommended to install P1057 blowers in overhung applications.

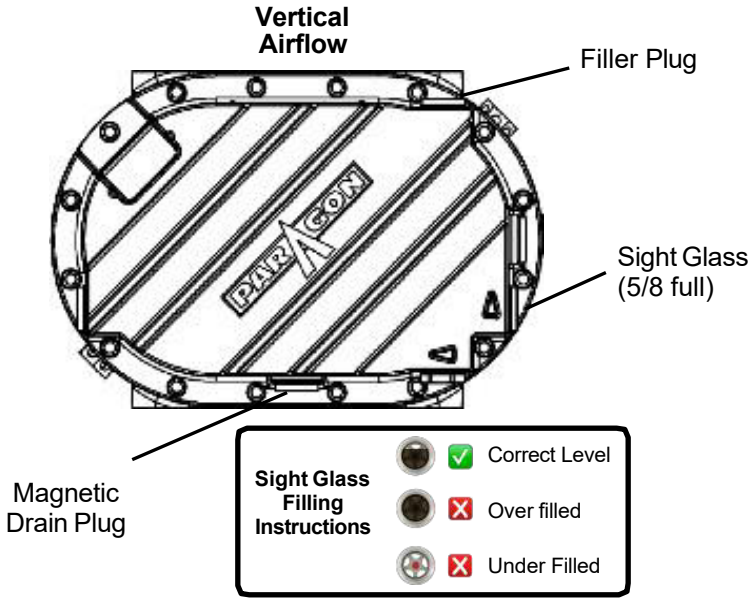
Preventative Maintenance

A good maintenance program will keep your P858/P858e/P1057 blower in top running condition. A newly installed P858/P858e/P1057 blower should be checked frequently during the first month of operation, especially lubrication. Check oil levels and add as needed. Complete oil changes are recommended **every 500 operating hours**, or more frequently (An oil analysis program is recommended). Below is Paragon's recommended minimum maintenance program.

Daily	Weekly	Monthly	Semi-Annually
1. Check and maintain oil level, add oil as necessary.	1. Clean Air Filter. Clogged air filters can seriously affect the efficiency of the blower.	1. Inspect the entire system for leaks.	1. Inspect the driveline components.
2. Check Air Filter element.	2. Check Relief Valve to assure it is operating properly.	2. Inspect the condition of oil and change if necessary.	2. Change oil (even if 500 operating hours has not been reached).

Lubrication Instructions





Standard Oil: P858/P858e/P1057 oil (Paragon part number: 409-007)
Note: Blower is shipped dry with 3 quarts of oil.
Caution: Mixing or incorrect oil can result in gear and bearing failure.

Oil Capacity	Horizontal Airflow (Standard Mount)	Vertical Airflow
Drive End Non-Drive End	15.46 oz. 21.40 oz.	30.13 oz. 43.92 oz.

Maintenance Kits:

	4" Inlet	5" Inlet
No Melt Plug Included	621-015	621-014
Melt Plug Included	621-016	621-017

Note: All maintenance kits include 3 quarts of oil and an inlet filter element.

Blower Operation

- Inspect blower mounting, driveline, PTO and air filter for integrity.
- Verify melt plugs are intact - replace as needed prior to operation.
- Remove camlock dust cap and connect the hot air hose.
- Follow trailer manufacturers' recommendation regarding product hose connection and valve operation.
- Slowly engage PTO with engine at idle.
- Bring up to operating speed and lock engine at recommended speed (shown in cab).
- Unload trailer as per trailer manufacturer's recommendation and **do not exceed** maximum tank pressure.
- While discharging, visually check blower for vibration, mechanical noise or excessive heat.
- If relief valve is operating adjust proportioning valve to reduce tank pressure.
- Reduce pressure to zero as per trailer manufacturer's instructions.
- Disengage PTO (No cool down period required).
- Disconnect blower hose and replace camlock dust cap.

Caution:
- ***The blower and accessories will become hot enough to cause serious skin burns on contact. Rotating machinery is dangerous.***
- ***Always wear ear protection when in close proximity to blower.***

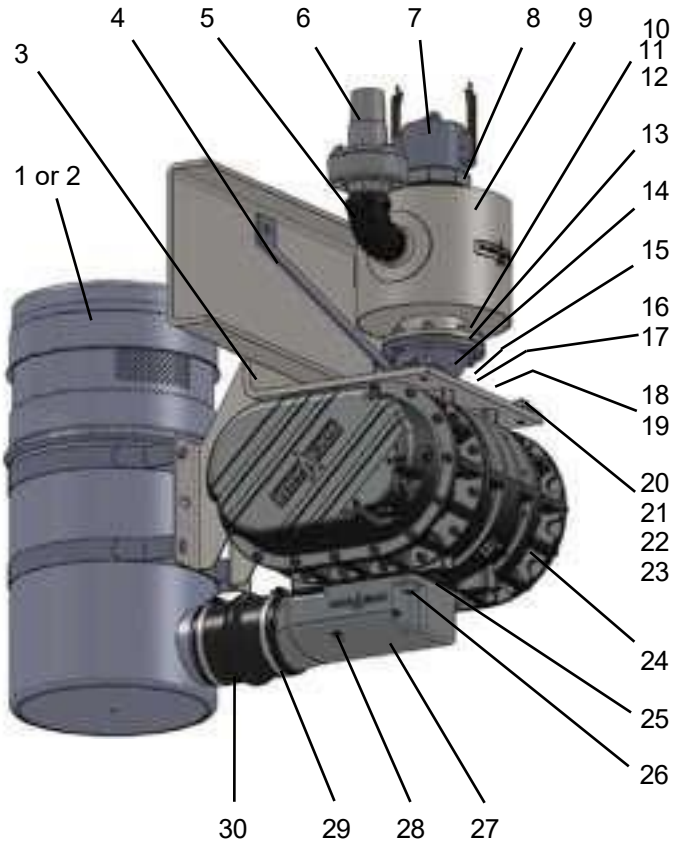
Storage

Paragon blowers, when shipped, have protection for normal storage conditions for up to 6 months. For any storage for longer than 6 months or for longer than one month after the blower's first use, please contact a Paragon customer service representative for storage recommendations.

Note: Do not remove the blower from its original packaging until it is ready to be installed.
Store in a clean, dry area.

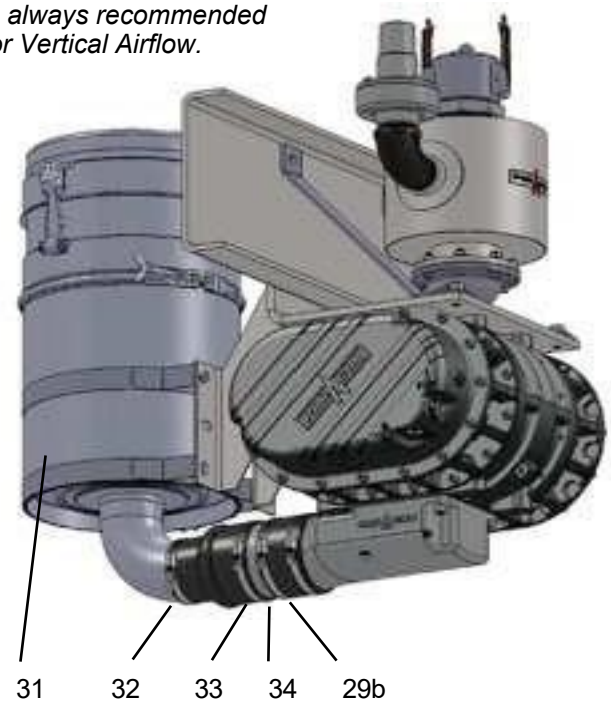
P858 P858e P1057

Vertical Airflow (VA) Diagram



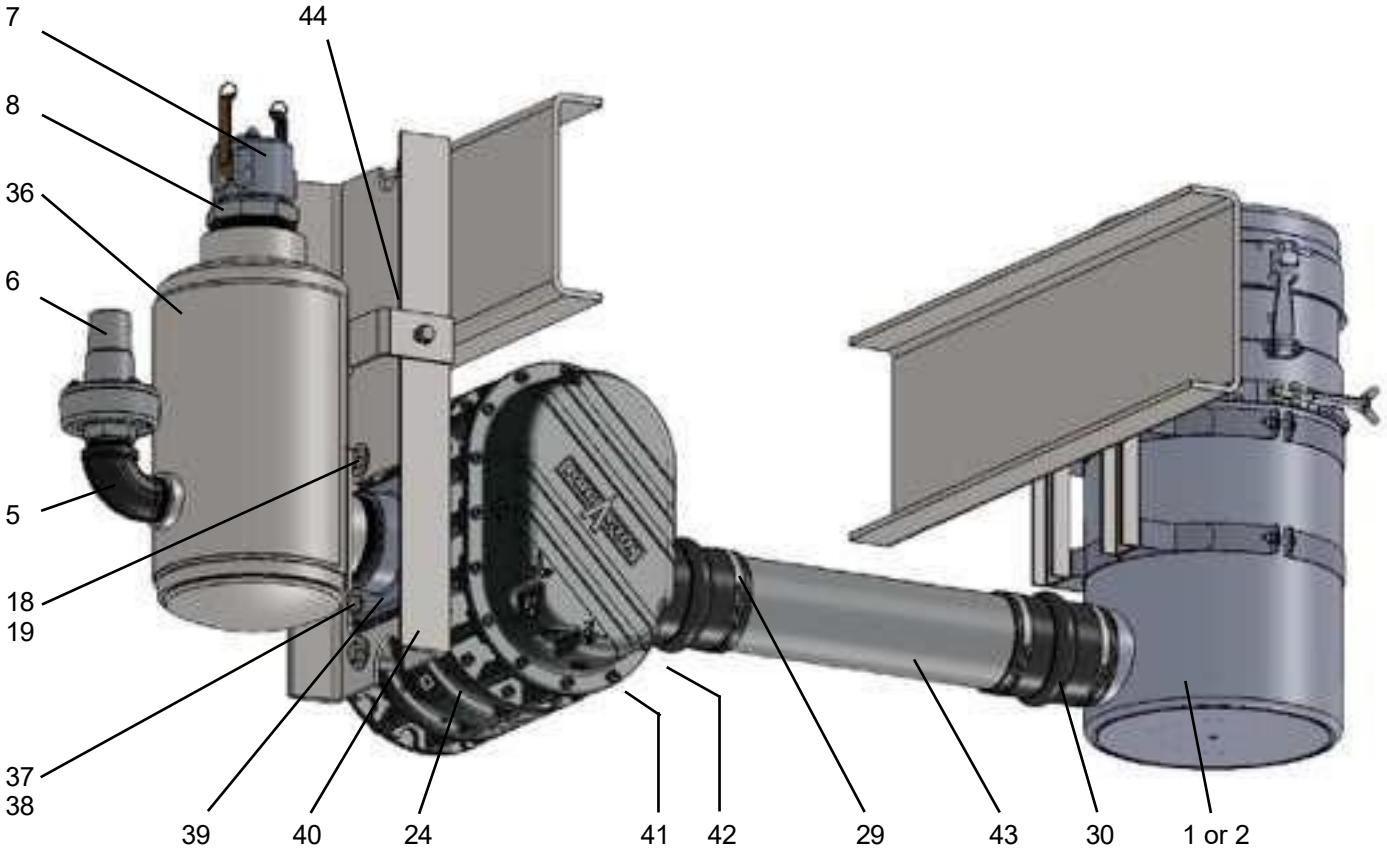
Vertical Airflow Pressure/Vacuum Filter Connection

Note: Bottom Outlet Filter is always recommended for Vertical Airflow.



#	P/N	Description	QTY
1	625-006	Filter, Assy S/S Side Outlet P858/P1057 psi only	1
2	625-002	Filter, Assy S/S Side Outlet P858/P1057, psi/vac	1
3	508-029	Bracket- Mounting no holes- P1057 VA	1
4	508-021	Angle Strap	2
5	533-005	2” Street Elbow	1
6	610-012	Relief Valve 16 psi	1
6	610-013	Relief Valve 18 psi	1
7	565-001	Dust cap 3”	1
7	565-002	Dust cap 4”	1
8	567-002	Camlock 3” male x 4” NPTM	1
8	533-045	Camlock 4” male x 4” NPTM	1
9	563-002	Muffler, 4” TTMA x 4” FNPT - steel	1
10	228-105	3/8” Bolt 1-1/2” long	2
11	294-009	3/8” Washer	2
12	284-008	3/8” Nut GR5 plated	2
10	228-066	7/16” Bolt TTMA Flange	6
11	296-011	1/2” Washer Plain Flat (for TTMA Flange)	6
12	284-007	7/16” Nut TTMA Flange	6
13	526-011	TTMA Gasket	1
14	509-010	Discharge Flange	1
15	526-002	Flange Gasket	1
16	128-025	M12 x 30 Bolt- Discharge Flange	4
17	196-008	M12 Washer- Discharge Flange	4
18	128-037	Cap Screw M16 x 35mm	4
19	194-007	M16 Lock Washer	4
20	228-095	5/8” Cap Screw Angle Strap	2
21	294-011	5/8” Lock Washer Angle Strap	2
22	296-014	5/8” Flat Washer Angle Strap	2
23	284-015	5/8” Nut Angle Strap	2
24	601-020	P858 Blower	1
24	601-020E	P858e Blower	1
24	601-021	P1057 Blower	1
25	526-002	Flange Gasket	1
26	124-020	Cap Screw M12 x 25mm	2
27	509-005	Suction Flange	1
28	124-023	Cap Screw M12 x 85mm	2
29	291-012	4”-6” Hose Clamp	2
30	587-002	Hump hose- 5”	1
31	625-003	Filter Assy S/S Bottom Outlet P858/P1057, PSI/VAC	1
32	587-000	Hump Hose Reducer- 4” x 5”	1
33	588-003	Tube, Aluminum 5” x 5” long	1
34	587-005	Hose, 3-1/2” long x 5” ID-EPDM	1
29b	291-012	4”-6” Hose Clamp	4

Horizontal Airflow (HA) Diagram

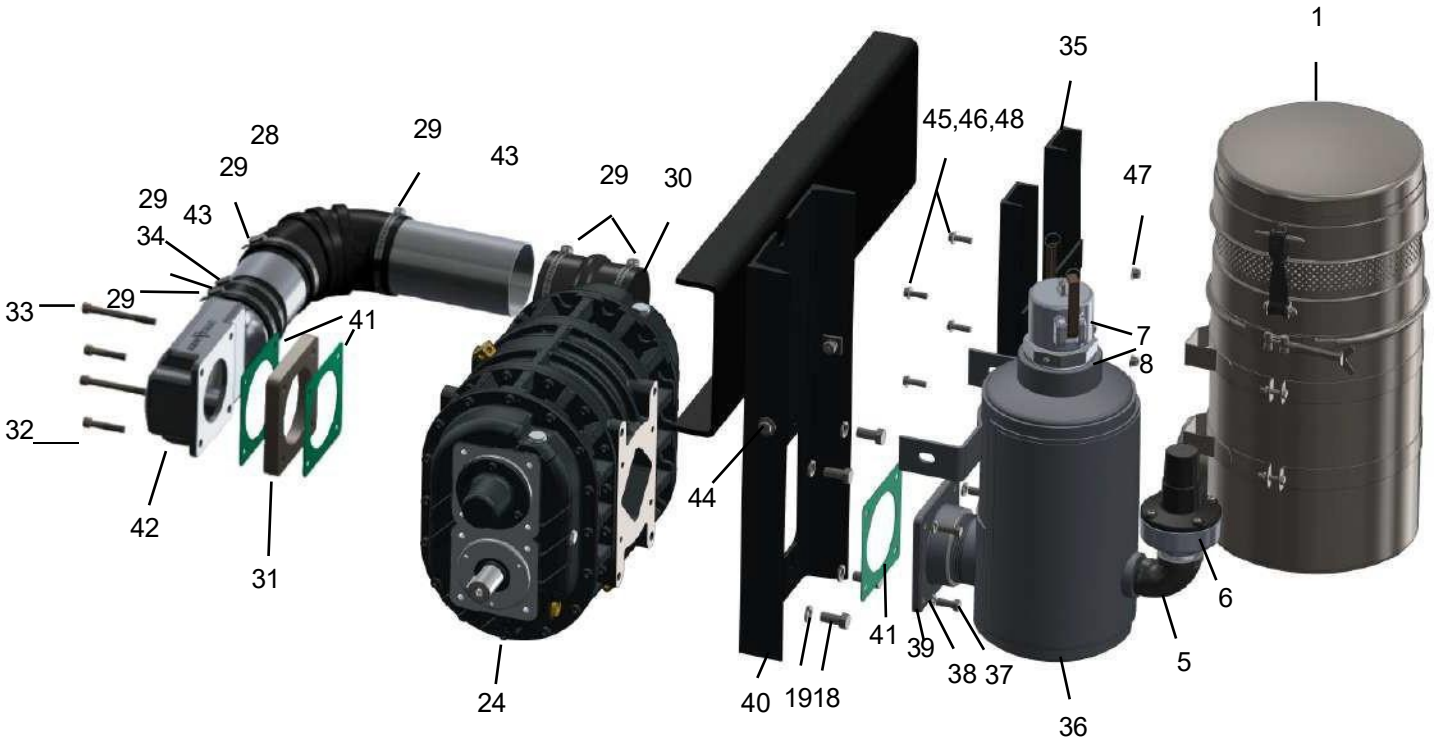


#	P/N	Description	QTY
1	625-006	Filter, Assy S/S P858 / P1057 psi only	1
2	625-002	Filter, Assy S/S P858 / P1057, psi/vac	1
5	533-005	2” Street Elbow	1
6	610-012	Relief Valve 16 psi	1
6	610-013	Relief Valve 18 psi	1
7	565-001	Dust cap 3”	1
7	565-002	Dust cap 4”	1
8	567-002	Camlock 3” male x 4” NPTM	1
8	533-045	Camlock 4” male x 4” NPTM	1
18	128-037	Cap Screw M16 x 35mm	4
19	194-007	M16 Lock Washer	4
24	601-020	P858 Blower	1
24	601-020E	P858e Blower	1
24	601-021	P1057 Blower	1
29	291-012	4”-6” Hose Clamp	4

#	P/N	Description	QTY
30	587-002	Hump hose- 5”	2
36	563-000	Muffler, 4” MNPT x 4” FNPT - steel	1
36	563-001	Muffler, 4” MNPT x 4” FNPT - S/S	1
37	128-025	Capscrew 8.8 M12 x 30mm	4
38	196-008	Flat Washer, M12	4
39	509-001	Flange, Delivery CI, H/A	1
40	508-061	Mounting Bracket - Passenger Side	1
40	508-025	Mounting Bracket - Driver Side	1
41	526-002	Gasket- Flange	1
42	509-002	Flange-Suction Al	1
43	588-002	Suction Pipe Al. 20”	1
44	90525-2	Bevel Washer 1/2”	2

P858 P858e P1057

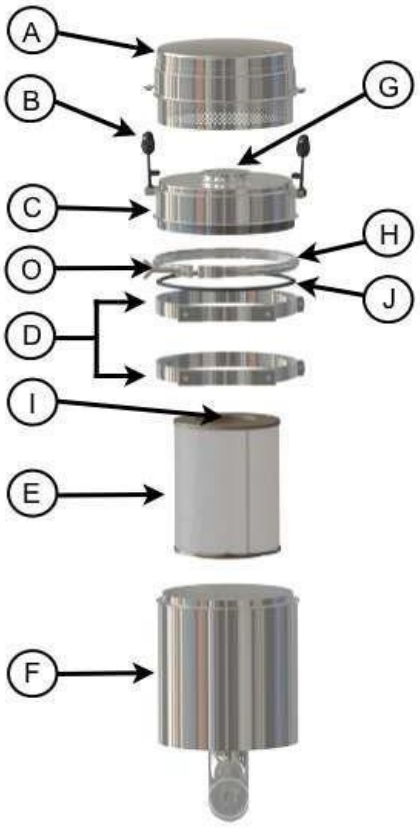
Horizontal Adjacent Airflow (HAA) Diagram



#	P/N	Description	QTY
1	625-006	Filter, Assy S/S Side Outlet P858/P1057 psi only	1
1	625-002	Filter, Assy S/S Side Outlet P858/P1057, psi/vac	1
5	533-005	2” Street Elbow	1
6	610-012	Relief Valve 16 psi	1
6	610-013	Relief Valve 18 psi	1
7	565-001	Dust cap 3”	1
7	565-002	Dust cap 4”	1
8	567-002	Camlock 3” Male x 4” NPTM	1
8	533-045	Camlock 4” Male x 4” NPTM	1
18	128-037	Cap Screw M16 x 35mm	4
19	194-007	M16 Lock Washer	4
24	601-020	P858 Blower	1
24	601-020E	P858e Blower	1
24	601-021	P1057 Blower	1
28	587-013	Elbow, Reinforced Rubber - 5"	1
29	291-012	4”-6” Hose Clamp	6
30	587-002	Hump Hose- 5”	2
31	571-019	Spacer, 1” thick - P1057 Port VA Flange	1
32	124-021	Cap screw Skt Hd M12 X 55mm	2
33	124-025	Cap screw Skt Hd M12 X 110mm	2

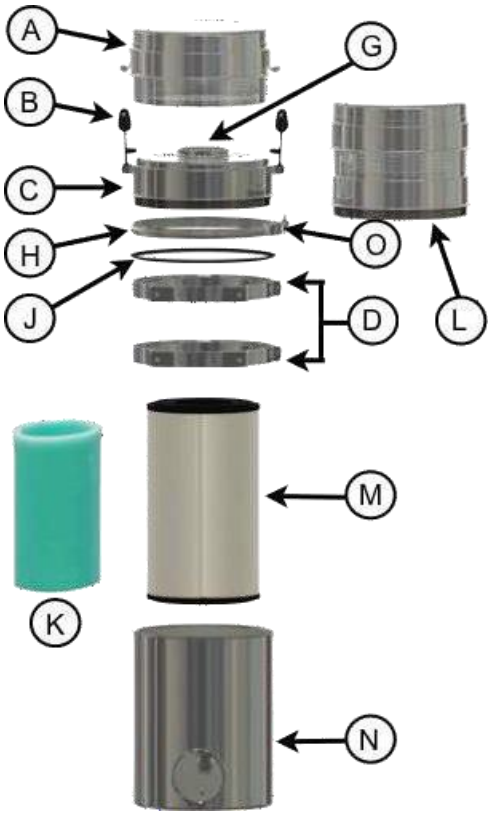
#	P/N	Description	QTY
34	587-005	Hose, 3-1/2" long x 5" ID - EPDM	1
35	508-058	Bracket - Mounting Paragon Air Filters	1
36	563-000	Muffler, 4” MNPT x 4” FNPT - Steel	1
36	563-001	Muffler, 4” MNPT x 4” FNPT - S/S	1
37	128-025	Capscrew 8.8 M12 x 30mm	4
38	196-008	Flat Washer, M12	4
39	509-001	Flange, Delivery CI, H/A	1
40	508-061	Mounting Bracket - Passenger Side	1
40	508-025	Mounting Bracket - Driver Side	1
40	508-061	Mounting Bracket -Passenger Side	1
41	526-002	Gasket- Flange	3
42	509-005	Flange-Suction Al - Elbow	1
43	588-002	Suction Pipe Al. 20” (Cut to length)	1
44	90525-2	Bevel Washer 1/2”	2
45	228-052	Capscrew Hex Hd Gr5 3/8"-16 X 1-1/4 Pl	4
46	196-008	Washer, Flat M12 Plated	4
47	284-009	Nut Hex Gr5 3/8-16 Nyloc Pl	4
48	85249	Washer Lock GR5 3/8" Zinc Plated	4

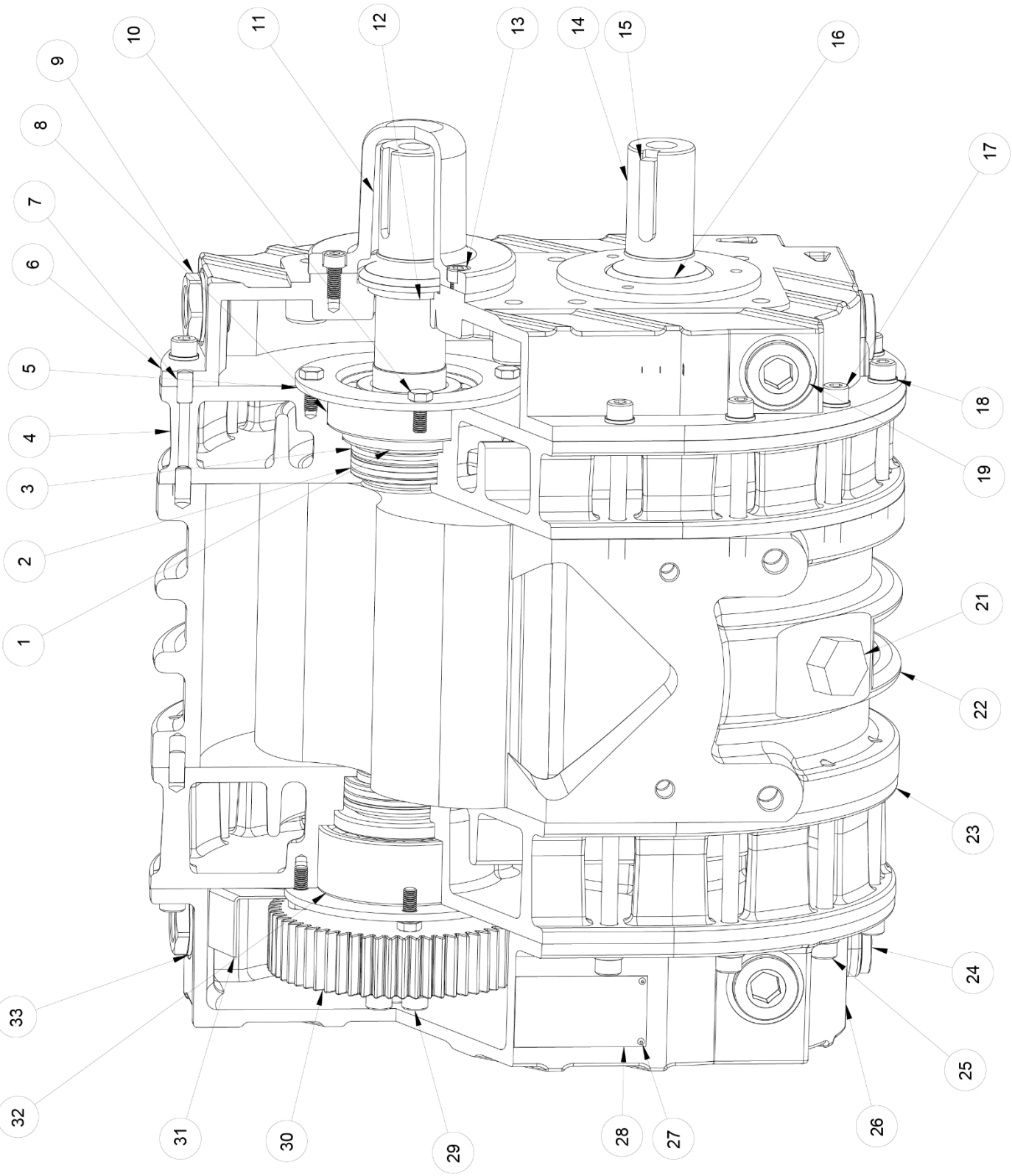
P858/P858e/P1057 Air Filter Assembly - Spare



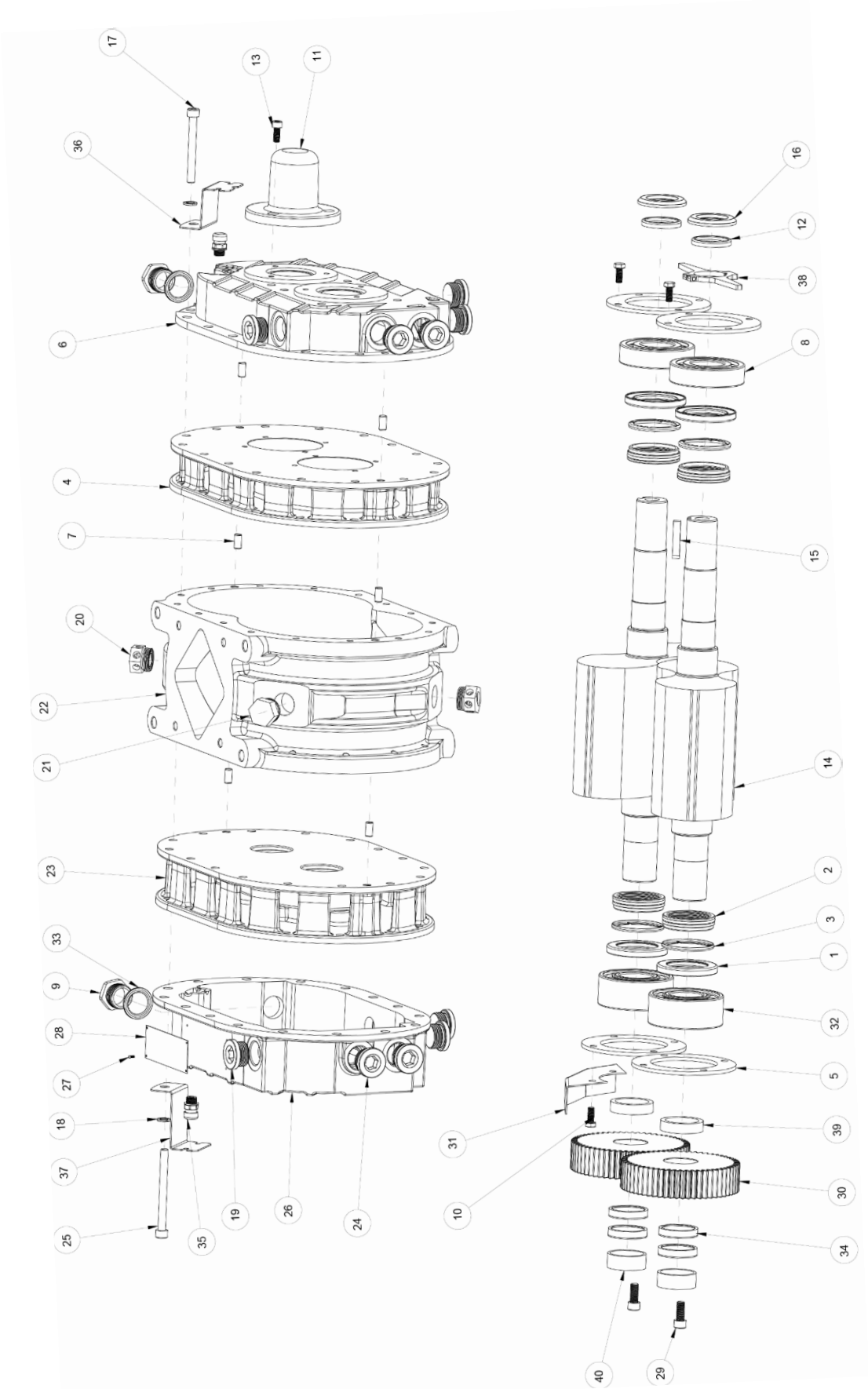
Item	P/N	Description	Qty
A	576-009	Cap Assembly	1
B	576-012	Rubber Flex Latch	2
C	576-010	Head Assembly- P858/P1057/CDL9/CDL12/ Latches	1
D	612-043	Kit, Bracket (set of 2) - S/S Air Filter Mounting	1
E	575-005	Filter Element - P858/P1057/CDL9/CDL12 *For Filter Assembly 625-003	1
F	576-007	Body - P858/P1057/CDL9/CDL12	1
G	533-045	Camlock 4” Male	1
H	576-008	Clamp Assembly ⅜” *Includes Wingnut (Item O)	1
I	634-000	Nut Kit, Filter Element - P657/P858/P1057	1
J	526-000	Gasket	1
O	184-004	SS hex body for Filter Band Clamp	1

Item	P/N	Description	Qty
A	576-009	Cap Assembly (PSI/VAC)	1
B	576-012	Rubber Flex Latch	2
C	576-010	Head Assembly - P858/P1057/Latches	1
D	612-043	Kit, Bracket (set of 2) - S/S Air Filter Mounting	1
G	533-045	Camlock 4” male	1
H	576-008	Clamp Assembly ⅜” ***Includes Wingnut (Item O)**	1
J	526-000	Gasket	1
K	575-007	Filter Sock for 573-003 Element *Installs on the inside of the filter element	1
L	576-013	Cap Assembly (PSI only)	1
M	573-003	Filter Element - P858/P1057 *For Filter Assembly 625-006 & 625-002	1
N	576-006	Body - P858/P1057 Side Outlet	1
	576-018	Body - P858/P1057 Side Outlet w/ Gauge **(PSI/VAC only)**	1
O	184-004	SS hex body for Filter Band Clamp	1





P858 P858e P1057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P858/P858e/P1057 Blower - Spare Parts

Item	Part#	Description	P858	P858e	P1057
1	555-009	TANK/S'PLATE OIL SEAL	4	4	4
2	556-040	LABYRINTH SEAL	4	4	4
3	582-067	RETAINER SEAL	4	4	4
4	501-016	DE BLOWER ENDPLATE	1	1	1
5	582-025	RETAINER BEARING	4	4	4
6	523-043	DE BLOWER COVER	1	1	1
7	274-002	DOWEL PIN 3/8X3/4 BRGHT FIN ST	6	6	6
8	512-007	ROLLER BEARING	2	2	2
9	355-008	HYD SIGHT GLASS	2	2	2
10	128-008	HHCS ISO 8.8 M8X20MM ZP	16	16	16
11	522-010	DRIVE SHAFT CAP	1	1	1
12	555-010	SHAFT OIL SEAL	2	2	2
13	124-003	SHCS M8 X 20 8.8	3	3	3
14	502-012	ROTOR, BLOWER P858	2	-	-
14	502-012E	ROTOR, DRIVE P858E	-	2	-
14	502-013	ROTOR, BLOWER P1057	-	-	2
15	8500109	KEY-SQUARE 3/8 X 2 ROE	1	1	1
16	558-003	DRIVE SHAFT SEAL	2	2	2
17	124-036	SHCS M10-1.5 X 90 8.8 ZP	16	16	16
18	194-011	SPLIT LOCK WASHER M10 ZP	28	28	28
19	323-005-GD	HYD PLUG G1 SOCKET HEAD	8	8	8
20	543-003	MELT PLUG 'D' STYLE	2	2	2
21	241-001	PLUG BLANK MELT PLUG	1	1	1
22	500-040	BODY P858	1	1	-
22	500-039	BODY P1057	-	-	1
23	501-015	NDE BLOWER ENDPLATE	1	1	1
24	141-001	MAGNETIC PLUG	2	2	2
25	124-037	SHCS M10-1.5 X 110 8.8 ZP	16	16	16
26	523-044	NDE BLOWER COVER	1	1	1
27	192-000	RIVET 2 X 1/4 U DRIVE SS	4	4	4
28	537-053	LABEL DATA TAG	1	1	1
29	124-040	CAPSCREW SKT HD M10-1.25 X 30M	6	6	6
30	529-005	GEAR, TIMING GEAR SET	2	2	2
31	527-032	OIL DEFLECTOR	1	1	1
32	510-008	DBL ROW BEARING	2	2	2
33	526-037	GASKET 1 BSPP FITTING SEAL	2	2	2
34	582-027	RETAINER GEAR LCK ELE	4	4	4
35	359-016	HYD BRTHR-1/4 NPT-N0 FILTER	2	2	2
36	523-045	DE BREATHER COVER	1	1	1
37	523-046	NDE BREATHER COVER	1	1	1
38	527-038	OIL SLINGER	1	1	1
39	571-026	BEARING SPACER	2	2	2
40	582-026	CLAMP BUSHING RETAINER	2	2	2
41	128-047	HHCS ISO 8.8 M4-0.7 X 25 ZP	1	1	1

Troubleshooting

Problem	Possible Cause	Recommended Solution
Knocking	Blower out of time	Re-time rotors
	Debris inside blower	Clear debris from blower
	Excess pressure	Reduce operating pressure, check relief valve
	Worn gears	Replace gears, verify oil levels/change oil
High discharge temperature, melt plugs going off	Blower speed too low	Increase blower speed
	Clogged/dirty air filter	Clean/replace filter
	Clogged silencer	Unclog silencer
	Excess pressure	Reduce operating pressure, check relief valve
	High internal clearances	Measure & correct clearances, replace rotors if necessary
	Internal contact	Measure clearances, re-time rotors or replace parts contacting as necessary
High oil/cover temperature	Incorrect oil level	Refill oil
	Dirty/incorrect oil	Change oil
	loose oil slinger (high DE oil temp)	Remove DE cover, tighten oil slinger retaining bolt
	Outer shaft seal installed incorrectly (high DE oil temp)	Replace/re-install shaft seal, verify cover oil seal is not damaged
	Connecting shaft out of balance	Identify damaged location, repair/replace as necessary
Whistling/Whining	Leaking inlet/discharge port gasket	Replace gasket
	Damaged air seal	Replace air seal
	Low gear end oil	Refill/change oil
Oil leak	Damaged cover plug/plug seal	Replace plug/plug seal
	Damaged sight glass/sight glass seal	Replace sight glass/sight glass seal
	Damaged breather	Replace breather
	Connecting shaft out of balance (DE cover seal oil leak)	Identify damaged location, repair/replace as necessary
	Overfilled oil (leaking through breather vent)	Change oil/lower oil level
	Incorrect blower speed (leaking through breather vent)	Reduce blower speed

Warranty Statement

PGWAR-1-100
Date Issued: 05/01/2025

GENERAL PROVISIONS AND LIMITATIONS

Paragon Tank Truck Equipment LLC (the “Company”) warrants to each original retail purchaser (“Purchaser”) of its products from the Company or its authorized distributor that such products are, at the time of delivery to the Purchaser, made with good material and workmanship. No warranty is made with respect to:

1. Any product which has been repaired or altered in such a way, in the Company’s judgment, to affect the product adversely.
2. Any product which has, in the Company’s judgment, been subject to negligence, accident, improper storage, or improper installation or application.
3. Any product which has not been operated or maintained in accordance with the recommendations of the Company.
4. Components or accessories manufactured, warranted, and serviced by others.
5. Any reconditioned or prior owned product.

Claims for items described in (4) above should be submitted directly to the manufacturer.

WARRANTY PERIOD

The Company’s obligation under this warranty is limited to repairing or, at its option, replacing, during normal business hours at an authorized service facility of the Company, any part which in its judgment proved not to be as warranted within the applicable Warranty Period as follows.

Product Type	Warranty Duration
New	18 months from date of shipment, or 12 months after initial startup date, whichever occurs first.
Remanufactured	12 months from date of shipment, or 12 months after initial startup date, whichever occurs first.
Repair	12 months from date of shipment, or remaining warranty period, whichever is greater.

All products furnished by seller but manufactured by others bear only that manufacturer’s standard warranty. Replacement parts not specifically called out in the above table are warranted for 90 days from shipment. Any disassembly or partial disassembly of any of the package components, or failure to return these “unopened” per Company instructions, will be cause for denial of warranty.

The Company reserves the right to withdraw the Warranty where evidence indicates application outside the stated performance area, or where there is evidence of abuse.

LABOR TRANSPORTATION AND INSPECTION

The Company will provide labor, by Company representative or authorized service personnel, for repair or replacement of any product or part thereof which in the Company’s judgment is proved not to be as warranted. Labor should be limited to the amount specified in the Company’s labor rate schedule and would exclude labor for the removal and reinstallation of the Paragon product from the customer’s equipment.

Labor costs more than the Company rate schedules caused by, but not limited to, location or inaccessibility of equipment, or labor provided by unauthorized service personnel is not provided by this warranty.

All costs of transportation of product, labor or parts claimed not to be as warranted and, of repaired or replacement parts to or from such service facilities shall be borne by the Purchaser. The Company may require the return of any part claimed not to be as warranted to one of its facilities as designated by the Company, transportation prepaid by Purchaser, to establish a claim under this warranty.

If a warrantable complaint occurs within 90 days of shipment:
1. Freight will be reimbursed for both the replacement item and the returned suspect part (if Requested by Paragon). This allowance will cover only transportation via Paragon selected most economical method within the continental United States, Canada and Mexico. Premium transportation and/or handling charges will not be covered or pro-rated.
2. Concerning distributors in Canada & Mexico, reimbursement for duty and brokerage fees at actual cost that cannot be recovered from Customs Officials, but not to exceed 20% of the distributor net price, will be allowed for warrantable complaints within 90 days.
3. Copies of related invoices must be provided with the submission of the claim to be considered.

Replacement materials provided under the terms of the warranty are warranted for the remainder of the Warranty Period of the product upon which installed to the same extent as if such parts were original components.

DISCLAIMER
THE FOREGOING WARRANTY IS EXCLUSIVE AND IT IS EXPRESSLY AGREED THAT, EXCEPT AS TO TITLE, THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY.

THE REMEDY PROVIDED UNDER THIS WARRANTY SHALL BE THE SOLE, EXCLUSIVE AND ONLY REMEDY AVAILABLE TO THE PURCHASER AND IN NO CASE SHALL THE COMPANY BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES. UNDER NO CIRCUMSTANCES SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, LOSSES OR DELAYS HOWSOEVER CAUSED.

No statement, representation, agreement, or understanding, oral or written, made by any agent, distributor, representative, or employee of the Company which is not contained in this Warranty will be binding upon the Company unless made in writing and executed by an officer of the Company.

This warranty shall not be effective as to any claim which is not presented within 30 days after the date upon which the product is claimed not to have been as warranted. Any action for breach of this warranty must commence within one year after the date upon which the cause of the action occurred.

Any adjustment made pursuant to this warranty shall not be construed as an admission by the Company that any product was not as warranted.

Paragon Tank Truck Equipment

www.paragondirect.com

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