

LIBERTY, NC

Enhanced Finish Product Zone Protection

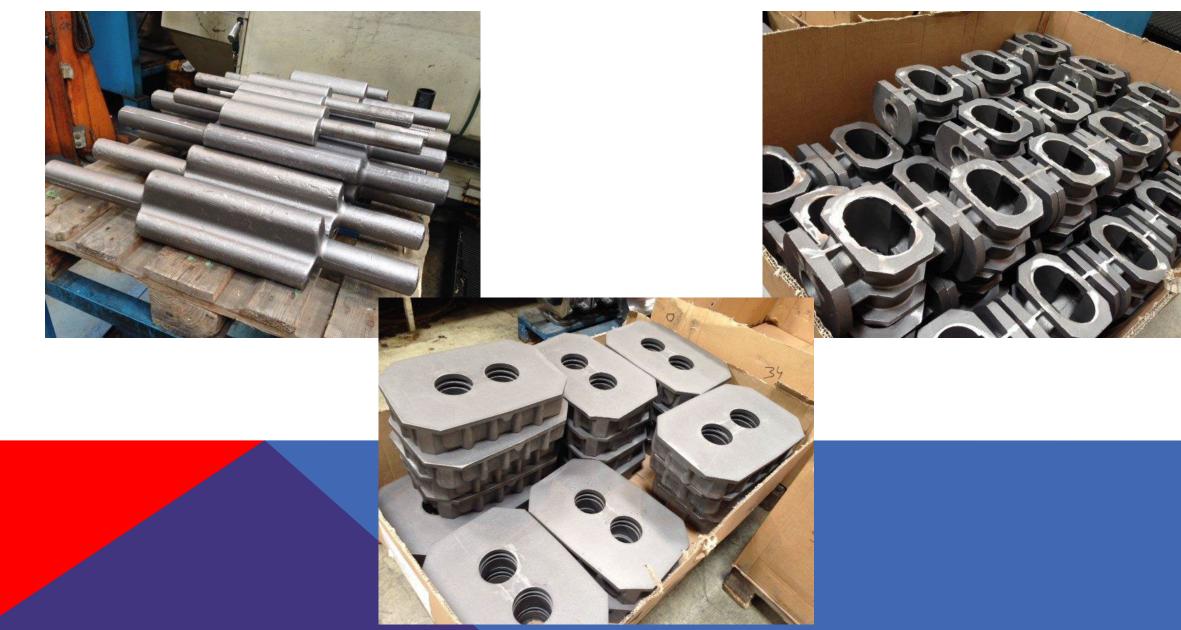


Bare Shaft Blowers





Raw Materials





Rotor Machining





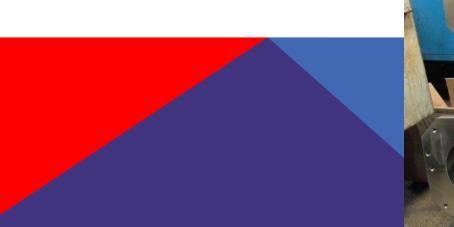




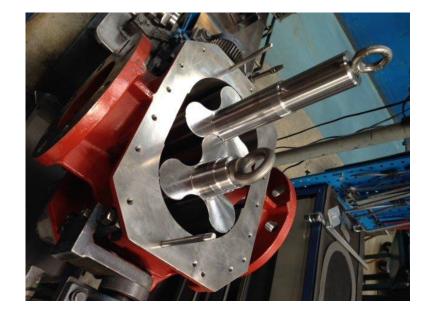
Blower Engineering Endplate/Cylinder Machining







Blower Blower Blower Assembly and Testing









Design Features

- Bearings: Spherical/cylindrical roller and ball bearing combinations; minimum 100,000 hour design life.
- Tri-Lobe Rotors: Involute contoured impeller profiles for maximum efficiency.
- Impeller/Shaft Rigidity: Reduces mechanical deflection and vibration.
- <u>Oil Seals:</u> Simple non-wearing slinger type oil seals, provide positive sealing in both oil sumps. Unaffected by high temperatures. No shaft wear.
- <u>Air Seals</u>: Piston ring air seals provide dependable non-wearing operation to minimize air leakage past the shafts.

- Heavy-Duty and ribbed cast iron housing and end covers: Reduce noise levels and increase heat dissipation.
- Versatile Mounting: Horizontal or vertical airflow is easily achieved by relocating the removable mounting feet incorporated in all models.
- Splash Oil Lubrication: Assures improved bearing life and operational simplicity.
- Gas or air is delivered in an uncontaminated, oil free state.
- The unit may be coupled directly or driven by V-belts.
- Rotation of the impellers is synchronized by a pair of timing gears having helical, hardened and ground teeth.

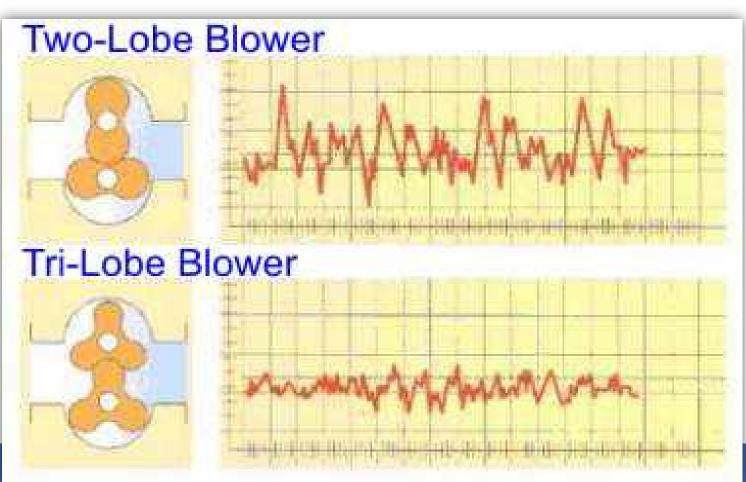


Two Lobe vs Tri-Lobe

All TL Blowers have Tri-Lobe rotors.

Lower frequency noise and less vibration.

Increased efficiency and reliability vs Dual-Lobe Blowers.



18 Blower Models

TRI-LOBE BLOWER PERFORMANCE

Tri-Lobe Model	∆P Max PSIG	Vacuum Max "Hg	30	14 	5	3 <mark>0</mark> 0	I	60	00 	I	t Vol ı 00	ume (24	4	800	I	52	00
TL 10	13	13																
TL 20	13	13																
TL 30	15	15																
TL 40	15	15																
TL 41	11	12																
TL 50	15	15																
TL 60	15	15																
TL 61	11	12																
TL 70	15	15																
TL 80	15	15																
TL 81	11	12																
TL 90	15	15																
TL 100	15	15																
TL 101	10	12																
TL 110	15	15																
TL 120	12	13																
TL 600	15	15																
TL 900	12	13																

Pressure Performance data based on the following; Gas handled: Air, Inlet pressure: 14.7 PSIA, Inlet Temp.: 68°F Vacuum Performance data based on the following; Gas handled: Air, Discharge pressure: 29.92 HG <u>A</u>, Inlet Temp.: 68°F

Blower Engineering Compact Base Blower Package

- Smaller footprint than competitors.
- Quiet operation (90-100 dba max @ 15 PSIG)
- Sanitary Design





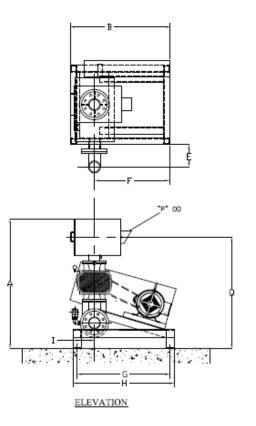


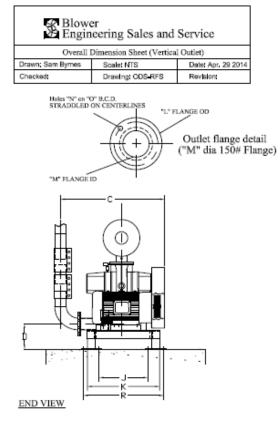
PACKING

Discharge Silencer

• Chamber type silencer, no fiberglass or other material.







NOTE: DIMENSIONS IN INCHES

	MODEL	А	в	с	D	Е	F	G	Н	Ι	J	к	L	м	Ν	0	Р	Q	R
	TL10	48.5	32	29.5	9	6.5	22	27	29	7	17	23	7.5	3	.75	6	3	38	25
	TL20	48	32	29.5	9	6.5	22	27	29	7	17	23	7.5	3	.75	6	4	37.5	25
	TL30	50	32	29.5	9	6.5	22	27	29	7	17	23	7.5	3	.75	6	4	39.25	25
	TL40	50	32	29.5	9	6.5	22	27	29	7	17	23	7.5	3	.75	6	4	39.25	25
	TL41	60	40	36	9.5	8	30	35	38	8	17.75	27.25	9	4	.75	7.5	6	47.125	30.75
	TL50	53	40	35.25	9.5	8	30	35	38	8	17.75	27.25	9	4	.75	7.5	5	43	30.75
	TL60	61.5	40	35.25	9.5	8	30	35	38	8	17.75	27.25	9	4	.75	7.5	6	48.625	30.75
	TL61	64	49	45	11	9.5	35	42	46	11	22.5	34	10	5	.875	8.5	8	50.75	37.5
	TL70	68	49	43	11	9.5	35	42	46	11	22.5	34	10	5	.875	8.5	8	54.75	37.5
	TL80	68	49	46	11	9.5	35	42	46	11	22.5	34	10	5	.875	8.5	8	54.75	37.5
	TL81	68	49	47.25	11	9.5	35	42	46	11	22.5	34	10	5	.875	8.5	8	54.75	37.5
	TL90	70	49	46	11	9.5	35	42	46	11	22.5	34	10	5	.875	8.5	8	56.75	37.5
	TL100	79	60	53	12.25	10.5	43	51	56	13	27	40	11	6	.875	9.5	10	62.75	43.5
	TL101	79	60	56.625	12.25	10.5	43	51	56	13	27	40	11	6	.875	9.5	10	62.75	43.5
	TL110	84	60	52.5	12.25	10.5	43	51	56	13	27	40	11	6	.875	9.5	10	67.75	43.5
	TL120	88.5	68	66.25	15	13.5	46	55	60	14	31	45	13.5	8	.875	11.75	12	72	48
	TL900	117	86	72	17	14.25	54	66	72	18	32.75	48.75	13.5	8	.88	11.75	14	91.75	56.75

Blower Engineering Aluminum Acoustic Enclosure





Key Benefits



- < 75 dba. @ 15 psig (3ft. field conditions)
- Weatherproof
- Residential areas
- Outdoor applications
- Install over a standard Tri-Lobe blower package

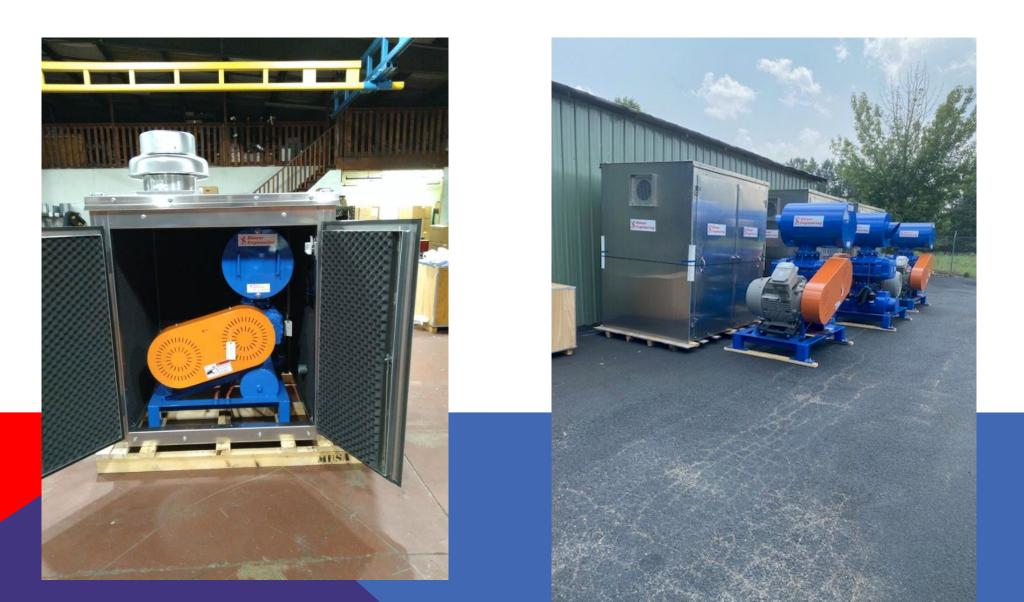














Single Blowers or Double Blower Enclosures







Mechanical Pre-Cleaners





High Debris Environments

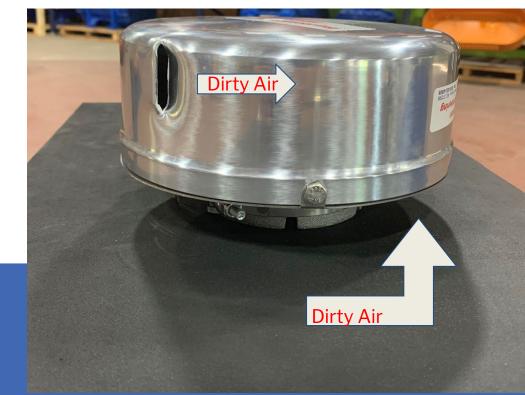




- Dirty air enters the Mechanical Pre-Cleaner.
- Spinning rotors separate dirt from the air.
- Dirt is carried along the inside of the cover to the discharge port.
- Dirt is ejected back into the atmosphere.
- Clean air is drawn in through the chamber; <u>only</u> dry, clean air enters the Filter/Silencer.



Extends filter element life up to 75%.

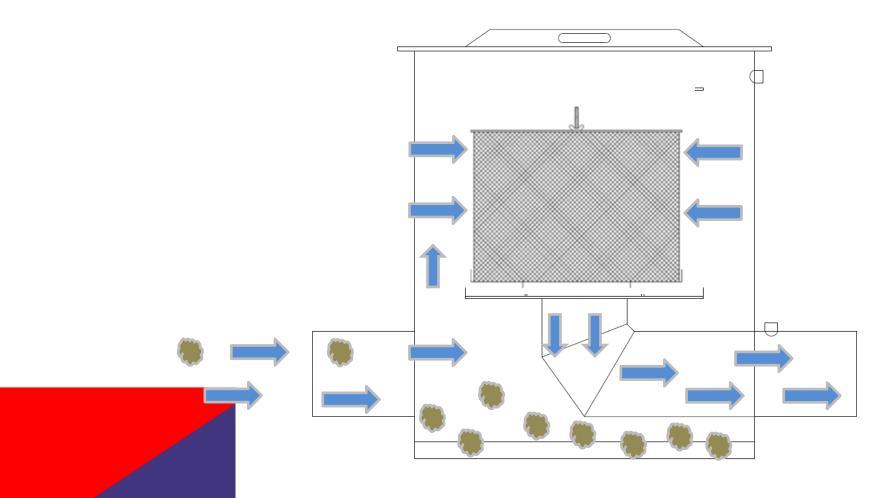


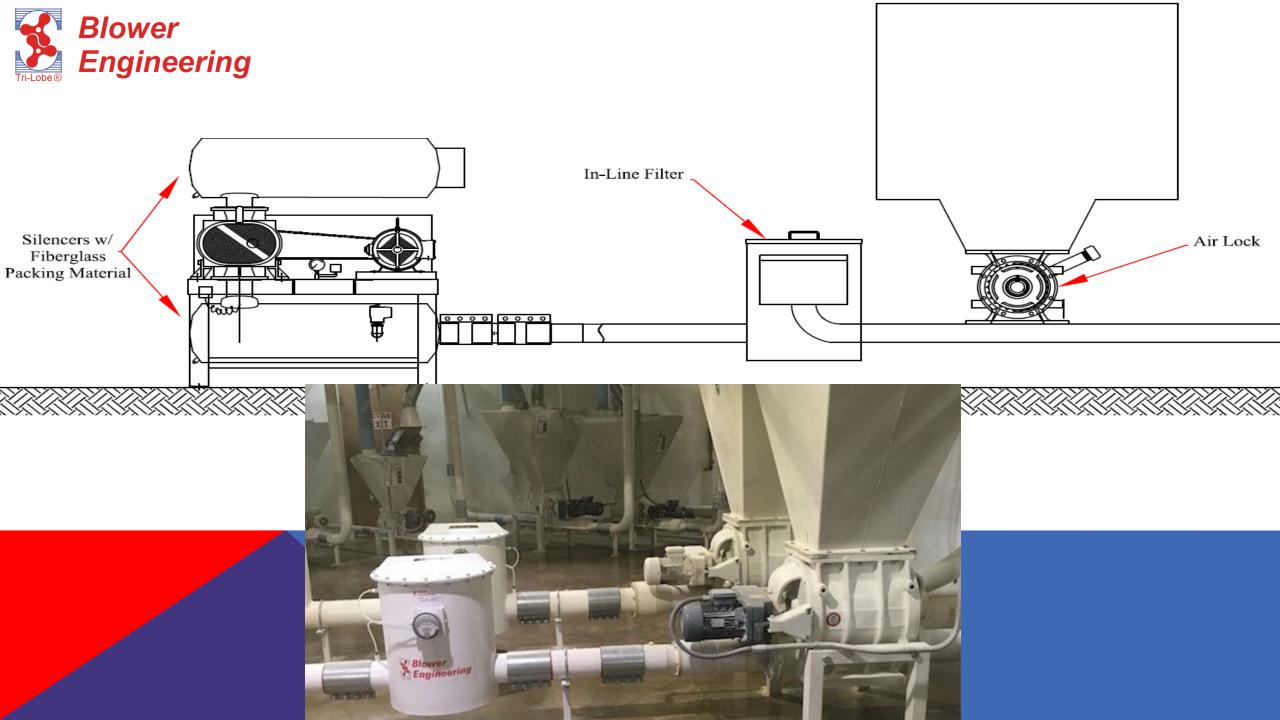


In-line Filter











Filter Construction

Filter media is reinforced wire mesh on the "dirty side" of the filter element

Perforated 11-gauge metal backing up the clean side of the filter element







Polyester Filter Elements

- For Extreme use, washable/reusable 10 -15 cycles
- Molded ends, no gasket to tear off







Filter Elements Available

- 10 Micron
- 5 Micron
- 1 Micron
- HEPA Grade



















THANK YOU !

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