Zedplus Blowers

Zed Plus Blower-
The only Blower with Life Time Care

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Rotary Positive Displacement Twin Lobe Compressors (Roots Blowers)

- Gas Blower
- Water Cooled Blower
- Twin Lobs Roots Blowers
- Acoustic Enclosures / Hood
- Sludge De-watering Machine
- Ring Blowers / Side Channel Blower

BLOWERS • PUMPS

ABOUT US

Zed Plus Blowers System Pvt. Ltd. is engaged in the manufacturing of Roots Type Twin & Three Lobe Blowers under the registered brand name "ZED PLUS." With a team of skilled engineers possessing extensive expertise in Twin Lobe Blowers technology, Zed Plus specializes in the application engineering of Roots Type Twin Lobe Blowers, Gas Blowers, Water Cooled Blowers, Vacuum Blowers, Aqua Culture Blowers, Spare Parts, and Acoustic Hoods. These products are widely used across various industries, including Flue Gas Applications in Sponge Iron, Silo Aeration for the Cement Industry, Bulker Unloading, Pneumatic Conveying, Sugar Plants, Water Treatment Plants, Sewage Treatment Plants, Wastewater Treatment Plants, Effluent Treatment Plants, Aquaculture Farms, Chemical & Pharmaceutical Plants, Food Processing Industries, and more. Zed Plus Blowers is committed to delivering high-quality solutions tailored to meet industry-specific requirements.

VISION

Our vision is to become a global leader in pressure and vacuum technologies, driving innovative solutions that maximize efficiency and promote sustain ability. Through continuous research and development, we strive to deliver advanced and adaptable solutions that meet the evolving needs of industries worldwide.

MISSION

Our mission is to deliver unmatched customer satisfaction by fostering innovation and pursuing continuous improvement. We are dedicated to providing customized solutions, ensuring prompt and reliable after-sales support, and building lasting relationships with our stakeholders. Through these efforts, we aim to grow into a trusted and respected industry leader.

VALUES

Customer-Centric Approach: Committed to understanding and exceeding customer expectations.Workplace Integrity: Promoting sincerity and dedication in all tasks.Respect for All: Valuing individuals and fostering a culture of mutual respect. Empowering Growth: Building a strong institution through continuous skill development,Open Communication: Maintaining transparency and clarity across all channels.Ethics & Responsibility: Upholding integrity by doing what is right and acting responsibly towards clients, colleagues, and the community.

QUALITY MANUFACTURING

Rotors: Precision-engineered from cast iron or S.G. iron, the rotors feature a robust design for maximum durability. Manufactured using advanced CNC and 3D machinery, they guarantee top-notch performance, reliability, and longevity.

Casting: All Zed Plus blower units are crafted from single-piece precision-machined cast iron with reinforced ribs, ensuring superior strength and stable thermal performance.

Bearings: Zed Plus blowers are equipped with high-quality SKF/FAG anti-friction bearings, selected based on machine requirements to ensure reliability.

Timing Gears: Forged steel gears with hardened and ground teeth minimize vibrations, providing precise rotor timing for smooth and efficient operations.

Shafts: Impeller shafts are made from high-strength alloy steel forgings, enabling higher operating pressures and rotational speeds.

Seals: Low-wear, non-contact labyrinth-type seals ensure exceptional performance and extended service life.

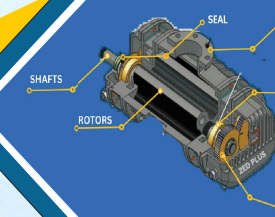
APPLICATIONS

Zed Plus Blowers are versatile and reliable solutions designed for a wide range of industrial applications, ensuring efficiency and performance across various Sectors:
Water Treatment Plants: Ideal for backwashing filters and mixed beds to maintain optimum performance.
Effluent and Sewage Treatment Plants: Efficiently provide diffused aeration and agitation for effective wastewater treatment.
Cement Plants: Support blending, aeration, fluidization, and material conveying processes.
Aquaculture: Maintain dissolved oxygen levels to enhance aquatic life health.
Chemical Plants: Supply process air critical for chemical production and processing.
Electroplating Plants: Deliver oil-free air for electrolyte agitation to ensure superior plating results.
Paper Plants: Optimize operations such as knife-edge coating, drying, conveying, and vacuum pickup.
Yarn Drying: Facilitate efficient vacuum or pressure drying of yarn.
Vacuum Moulding: Enable rapid vacuum creation for moulding processes.
Polyester Chip Processing: Ensure smooth conveying and drying of polyester chips and similar materials.
Bag Filters: Provide effective reverse cleaning of filter bags to maintain filtration efficiency.
Pneumatic Conveying: Enable vacuum, pressure, or combined conveying of materials like cereals, cement, husk, bagasse, granules, powders, and other similar substances.
Dryer and Molecular Sieve Regeneration: Deliver precise air supply for the regeneration of dryers and molecular sieves.

Zed Plus Blowers deliver unmatched performance and efficiency, catering to diverse industrial needs with reliability and precision.

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APPLICATIONS



BLOWER PERFORMANCE TABLE

MODEL	SPEED (RPM)	0.10 kg/cm² m³/hr	BHP	0.20 kg/cm² m³/hr	BHP	0.30 kg/cm² m³/hr	BHP	0.40 kg/cm² m³/hr	BHP	0.50 kg/cm² m³/hr	BHP	0.60 kg/cm² m³/hr	BHP	0.70 kg/cm² m³/hr	BHP	Suction NB(mm)	Features
ZP-365	1000	51	0.43	42	0.70	35	0.96	29	1.23	24	1.48					40	Nosie Level 85+/-5 db(A)
	1200	65	0.52	56	0.84	49	1.16	44	1.47	38	1.70						
	1440	80	0.60	71	0.98	64	1.35	58	1.72	53	2.06						
ZP-350	1000	51	0.43	42	0.70	35	0.96	29	1.23	24	1.48					40	
	1200	65	0.52	56	0.84	49	1.16	44	1.47	38	1.70						
	1440	80	0.60	71	0.98	64	1.35	58	1.72	53	2.06						
ZP-450	800	52	0.6	40	0.9	31	1.2	23	1.5	16	1.8	10	2.1	4	2.4	40	
	1100	83	0.8	71	1.2	62	1.6	54	2.0	47	2.4						
	1440	118	1.1	106	1.6	96	2.1	89	2.7								
ZP-42	1000	77	0.7	67	1.1	59	1.5	52	1.9	46	2.2	40	2.6	35	3.0	40	
	1300	108	1.0	98	1.4	90	1.9	83	2.4	77	2.9	71	3.4	66	3.9		
	1600	109	1.2	128	1.8	120	2.4	114	3.0	108	3.6	102	4.2	97	4.8		
ZP-44	1000	112	0.9	97	1.5	85	2.0	75	2.6	66	3.1	58	3.7	51	4.2	65	
	1300	157	1.2	142	1.9	130	2.6	120	3.4	111	4.1	103	4.8	96	5.5		
	1600	202	1.5	187	2.4	175	3.3	165	4.1	156	5.8	148	5.9	141	6.7		
ZP-47	1000	209	1.6	183	2.6	162	3.6	146	4.6							80	
	1300	290	2.1	264	3.4	244	4.7	227	6.0								
	1600	372	2.6	346	4.2	326	5.8										
ZP-53	1000	187	1.6	171	2.4	160	3.2	150	4.0	141	4.8	133	5.7	125	6.5	65	
	1300	254	2.0	239	3.1	227	4.2	217	5.2	208	6.3	200	7.3	193	8.4		
	1500	299	2.4	284	3.6	272	4.8	262	6.0	253	7.3	245	8.5	238	9.7		
ZP-55	1000	234	1.8	211	2.8	194	3.9	179	4.9	166	6.0	154	7.0	143	8.1	80	
	1300	321	2.3	296	3.6	280	5.8	265	6.4	252	7.8	241	9.1	230	10.5		
	1500	378	2.6	356	4.2	338	5.8	323	7.4	310	8.9	298	10.5	288	12.1		
ZP-57	1000	327	2.2	295	3.6	271	5.1	250	6.6	232	8.1	216	9.5			100	VIBRATION MAX 47 Micron X,Y,Z PLAN
	1300	449	2.8	417	4.7	392	6.7	372	8.6	353	10.5	337	12.4				
	1500	530	3.3	498	5.5	473	7.7	453	9.3	434	12.1						
ZP-59	1000	457	3.0	419	5.0	390	7.0	366	9.0							100	
	1300	622	3.9	584	6.5	555	9.1	531	11.7								
	1500	732	4.5	694	7.5	665	10.5	640	13.5								
ZP-65	1000	300	2.4	270	3.7	247	5.1	227	6.4	210	7.8	194	9.2	179	10.5	80	
	1300	413	3.1	382	4.8	359	6.6	339	8.4	322	10.2	306	11.9	292	13.7		
	1600	525	3.8	494	6.0	471	8.1	451	10.3	434	12.5	418	14.7	404	16.9		
ZP-67	1000	454	3.0	410	5.1	376	7.1	347	9.2	322	11.2	299	13.3	278	15.3	100	
	1300	622	4.0	578	6.6	544	9.3	515	11.9	490	14.6	467	17.2	446	19.9		
	1600	791	4.9	746	8.1	712	11.4	684	14.7	658	17.9	635	21.2	615	24.5		
ZP-610	1000	607	3.7	547	6.5	502	9.2	464	11.9	430	14.7	400	17.4	371	20.1	150	
	1300	832	4.8	772	8.4	727	11.9	689	15.5	655	19.0	624	22.6	596	26.1		
	1600	1056	6.0	997	10.3	952	14.7	913	19.1	880	23.4	849	27.8	821	32.2		
ZP-615	1000	921	5.2	838	9.3	775	13.4	721	17.4							150	
	1300	1258	6.7	1175	12.1	1111	17.4	1057	22.7								
	1600	1594	8.3	1511	14.8	1448	21.4	1394	27.9								
ZP-76	1000	602	3.8	567	6.3	539	8.8	516	11.3	496	13.8	477	16.3	461	18.9	100	
	1300	809	4.9	773	8.2	746	11.5	723	14.7	702	18.8	684	21.2	667	24.5		
	1600	1015	6.1	980	10.1	952	14.1	929	18.1	909	22.1	890	26.2	874	30.2		
ZP-78	1000	700	4.6	748	8.0	709	11.3	677	14.7	649	18.0	623	21.4	600	24.7	125	
	1300	1073	6.0	1023	10.4	985	14.7	953	19.1	924	23.4	898	27.8	875	32.1		
	1600	1348	7.4	1298	12.8	1260	18.1	1228	23.5	1200	28.8	1174	34.2	1150	39.5		
ZP-710	1000	1000	5.5	938	9.7	892	13.8	852	18.0	817	22.2	786	26.4	757	30.6	150	Orientation Horizontal & Vertical
	1300	1344	7.1	1283	12.6	1236	18.0	1196	23.4	1161	28.9	1130	34.3	1101	39.7		
	1600	1688	8.8	1627	15.5	1580	22.1	1540	28.8	1506	35.5	1474	42.2	1445	48.9		
ZP-713	1000	1295	6.7	1214	12.2	1152	17.6	1100	23.0	1054	28.4	1012	33.9	974	39.3	150	
	1300	1742	8.7	1662	15.8	1599	22.9	1547	29.9	1501	37.0	1459	44.0	1421	51.1		
	1600	2190	10.8	2109	19.5	2047	28.1	1994	36.8	1984	45.5	1906	54.2				
ZP-717	1000	1696	8.8	1590	15.9	1508	23.0	1440	30.1							150	
	1200	2086	10.6	1980	19.1	1899	27.6	1830	36.2								
	1500	2671	13.2	2565	23.9	2484	34.5	2415	45.2								
ZP-89	1000	1076	8.3	1029	12.7	993	17.0	963	21.3	936	25.7	912	30.0	890	34.3	100	
	1200	1314	10.0	1267	15.2	1231	20.4	1201	25.6	1174	30.8	1150	36.0	1128	41.2		
	1440	1600	12.0	1553	18.2	1517	24.5	1486	30.7	1460	37.0	1435	43.2	1413	49.4		
ZP-812	1000	1439	9.8	1376	15.6	1328	21.4	1288	27.2	1252	33.0	1219	38.8	1190	44.6	125	
	1300	1757	11.8	1695	18.7	1646	25.7	1606	32.5	1570	39.6	1538	46.5	1508	53.5		
	1440	2139	14.1	2076	22.4	2028	30.8	1988	39.1	1952	47.5	1919	55.8	1890	64.2		
ZP-816	1000	1919	11.7	1835	19.5	1771	27.2	1717	34.9	1669	42.6	1626	50.4			200	
	1200	2343	14.1	2260	23.3	2195	32.6	2141	41.9	2093	51.2	2050	60.4				
	1440	2852	16.9	2769	28.8	2704	39.1	2650	50.3	2602	61.4	2559	72.5				
ZP-820	1000	2399	13.7	2294	23.3	2214	33.0	2146	42.6							200	
	1200	2929	16.4	2824	28.0	2744	39.6	2676	51.2								
	1440	3565	19.7	3461	33.6	3380	47.5	3313	61.4								
ZP-1012	1000	2460	14.9	2353	24.8	2271	34.7	2201	44.6	2140	54.5	2084	64.4	2034	74.3	150	Oil free Blowers
	1200	3004	17.9	2897	29.8	2814	41.7	2745	53.5	2684	65.4	2628	77.3	2578	89.2		
	1440	3657	21.5	3550	35.7	3467	50.0	3398	64.3	3336	78.5	3281	92.8	3230	107.1		
ZP-1016	1000	3306	18.3	3162	31.6	3051	44.9	2958	58.2	2875	71.6	2801	84.9	2733	98.2	200	
	1200	4037	22.0	3893	37.9	3782	53.9	3689	69.9	3606	85.9	3532	101.8	3464	117.8		
	1440	4914	26.4	4770	45.5	4659	64.7	4566	83.9	4483	103.0	4409	122.2	4341	141.4		
ZP-1020	1000	4229	22.0	4044	39.1	3902	56.1	3783	73.1	3678	90.1	3583	107.2				
	1200	5163	26.4	4979	46.9	4837	67.3	4718	87.7	4613	108.2	4518	128.6				
	1440	6285	31.7	6101	56.2	5959	80.8	5840	105.3	5734	129.8	5639	154.3				
SB-1024	1000	4967	25.0	4750	45.0	4584	65.0	4443	85.0	4320	105.0					300	
	1200	6065	30.0	5848	54.0	5682	78.8	5541	102.0	5418	126.0						
	1440	7382	36.0	7166	64.8	6999	93.6	6859	122.4	6735	151.2						

Air Blowers Gas Blower Water Cooled Acoustic Hood & Enclosures

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Water Cooler Blowers

Water cooled series is similar in construction & performance except in the change of cooling arrangement. In water cooled blower the plates have water jackets around them where water is circulated, which dissipates the heat of compression generated & keeps internals cool.Water cooled blowers are recommended for application where discharge pressure exceeds 6000 mm WG since it is essential to dissipate heat for effecient working & long life of the bearings and oil seals. Our water cooled blower available for discharge capacities upto 7000m/hr & pressure upto 1 kg/cm through single-staging.

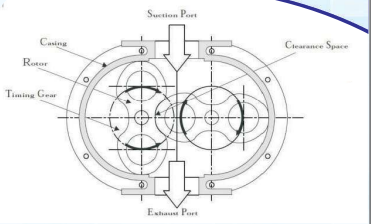
Model	SPEED	.50 kg/cm3		.6kg/ cm3		.7kg/ cm3		.8kg/ cm3		.9kg/ cm3		1.0 kg/cm3		COOLING WATER	OPENING
	(RPM)	m3 /hr	BHP	m3 /hr	BHP	m3 /hr	BHP	m3 /hr	BHP	m3 /hr	BHP	m3 /hr	BHP		
53WC	950	132	4.6	124	5.4	116	6.2	110	7	103	7.8	97	8.6	4-5 LPM	65
	1200	186	5.8	178	6.8	170	7.8	163	8.7	154	9.7	151	10.7		
	1500	253	7.3	245	8.5	238	9.7	231	10.9	224	12.2	218	13.4		
55WC	950	154	5.7	142	6.7	132	7.7	122	8.8	112	9.8	103	10.8	4-5 LPM	80
	1200	224	7.2	212	8.4	201	9.7	191	10.9	181	12.2				
	1440	293	8.6	281	10.1	270	11.6	260	13.1						
65WC	1000	210	7.8	194	9.2	179	10.5	166	11.9	153	13.3	141	14.6	5-6 LPM	80
	1300	322	10.2	306	11.9	292	13.7	278	15.5	266	17.2	254	19		
	1600	434	12.5	418	14.7	404	16.9	390	19	378	21.2	366	23.4		
67WC	1000	322	11.2	299	13.3	278	15.3	258	17.3	240	19.4	223	21.4	5-6 LPM	125
	1300	490	14.6	467	17.2	446	19.9	427	22.5	408	25.2	391	27.9		
	1500	658	17.9	635	21.2	615	24.5	595	27.8	577	31	559	34.2		
610WC	1000	430	14.7	400	17.4	371	20.1	345	22.8	321	25.6	298	28.2	6-8 LPM	150
	1300	655	19	624	22.6	596	26.1	570	29.7	546	33.2				
	1500	805	22	774	26.1	746	30.2	720	34.3						
78WC	1000	649	18	623	21.4	600	24.7	578	28	557	31.4	537	34.7	6-8 LPM	125
	1300	924	23.4	898	27.8	875	32.1	853	3.5	832	40.8	813	45.2		
	1600	1200	28.8	1174	34.2	1150	39.5	1128	44.9	1108	50.2	1088	55.6		
710WC	1000	817	22.2	786	26.4	757	30.6	730	34.7	704	38.9	680	43.1	8-10 LPM	150
	1300	1161	28.9	1130	34.3	1101	39.7	1074	45.5	1049	50.6	1026	56		
	1600	1506	35.5	1474	42.2	1445	48.9	1418	55.6						
812WC	1000	1252	33	1219	38.8	1190	44.6	1162	50.4	1136	56.2	1111	61.9	10-12 LPM	125
	1200	1570	39.6	1538	46.5	1508	53.5	1480	60.4	1454	67.4	1430	74.3		
	1440	1952	47.5	1919	55.8	1890	64.2	186	72.5						
1012WC	1000	2140	54.5	2084	64.4	2034	74.3	1986	84.2	1942	94.2	1900	104.1	10-12 LPM	150
	1200	2684	65.4	2628	77.3	2578	89.2	2530	101	2486	113	2444	124.9		
	1440	3336	78.5	3281	92.8	3230	107	3183	121	3138	136	3096	149.8		
1016WC	1000	2875	71.6	2801	84.9	2733	98.2	2669	112	2609	125	2553	138.1	16-18 LPM	200
	1200	3606	85.9	3532	101.8	3464	118	3400	134	3340	150	3284	165.7		
	1440	4483	103	4409	122.2	4341	141	4277	161						

100% OIL FREE DELIVERY

Model	CAPACITY	PRESSURE	RPM	HP	LINE SIZE	ORIENTATION
47AQUA	250	2000	1200	5HP	80	VF
59AQUA	550	2000	1200	7.5HP/10HP	100	VF
615AQUA	1050	2000	1200	12.5HP	150	VF

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Purpose of Using the Zed Plus Vacuum Booster :-
The Zed Plus Vacuum Booster is designed to significantly vacuum system by addressing the limitations of the Backi
Key benefits include:
Increased Pumping Speed:
The Zed Plus Vacuum Booster boosts volumetric capacity processing.
Enhanced Vacuum Levels: It improves the ultimate vacuum level, enabling better results for demanding applications.
Reduced Downtime: By accelerating the process, it minimizes operational delays and ensures consistent performance.
Energy Efficiency: A sustainable alternative to traditional steam ejectors/boosters, the Zed Plus Vacuum Booster drastically reduces energy consumption compared to steam-based systems, making it cost-effective and eco-friendly.Upgrade to Zed Plus Vacuum Booster for reliable, efficient, and energy-saving vacuum solutions.

Layout Design of Zed Plus Vacuum Booster

The Zed Plus Vacuum Booster operates as a Positive Displacement Roots-Type Pump, delivering superior vacuum performance through its advanced design.Key Features:Core Design: The Zed Plus Vacuum Booster consists of an outer casing and precision-engineered twin 8-shaped rotors (also called lobes or Roots). These rotors ensure high vacuum levels through precise clearances between the lobes and the casing.Rotational Mechanism: The rotors rotate in opposite directions—one driven directly by an electric motor and the other through synchronized timing gears. This arrangement ensures smooth and efficient operation.Air Handling Process:Air enters through the suction/inlet of the booster.The rotors trap the incoming air in four equal parts per revolution.As the rotors rotate, the trapped air is compressed and forced toward the discharge/outlet.The timing gears maintain precise rotor clearances, ensuring maximum volumetric efficiency.Sealing and Durability: The rotors are mounted on shafts equipped with high-quality lip seals or piston rings, selected based on the application. These seals protect the timing gears, bearings, and rotors, extending the overall life of the booster.
Performance Standard: Zed Plus Vacuum Boosters operate at a standard rotational speed of 1440 RPM, ensuring consistent and reliable vacuum performance.With its robust design and precision engineering, the Zed Plus Vacuum Booster delivers unmatched efficiency and durability for all your vacuum process needs.

Key Features and Advantages of Zed Plus Vacuum Boosters

Lightweight & Durable: Engineered for a balance of portability and strength.
High Ultimate Vacuum: Achieves superior vacuum levels for even the most demanding applications.Precision-Balanced Rotors: Ensures smooth operatio and minimizes vibrations for enhanced performance.Direct Connection to Backing Vacuum Pump: Simplifies integration by allowing a direct connection to the pump inlet.High-Speed Operation: Capable of operating at speeds up to 2900 RPM for efficient processing.Exceptional Volumetric Efficiency: Maximizes air movement with minimal energy loss.Dry Operation: Designed to operate completely dry, eliminating the need for additional moisture manag Air-Cooled Design: Offers efficient cooling, promoting reliability and reducing e consumption.Enhanced Sealing Mechanism: Features a robust sealing systen prevent backing pressure from affecting the vacuum area.Compact & Space-E A streamlined design for easy installation in confined spaces without compron performance.The Zed Plus Vacuum Booster combines advanced features for reliability, efficiency, and long-term performance.

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The Zed Plus Side Channel Blower features a ring-shaped housing where the side channel and rotor work in tandem to form a pressure system between the intake and exhaust connections. As the rotor spins, its blade segments draw in air, generating radial pressure. The centrifugal force forces the air outward into the side channel, creating a circular flow between the channel and the rotor blades. This radial pressure initiates a rotational motion in the air, which is further compressed as it spirals within the chamber. The air is compressed multiple times due to the swirling action, resulting in an increase in pressure. Finally, the rotor expels the compressed air smoothly and pulsation-free through the exhaust connection.



DESCRIPTION

The Zed Plus Side Channel Blower, also referred to as a regenerative or ring blower, is powered directly by an electric motor. The impeller is mounted directly onto the motor shaft, allowing for contact-free compression without any friction to ensure maximum operational reliability and an extended service life, even under high differential pressures, the blower's bearings are strategically placed outside the compression chamber. This design minimizes wear and maximizes performance.

FEATURES

- Exceptional reliability, minimal maintenance, and a compact design.
- Capable of running for up to 20,000 hours without the need for maintenance downtime.
- Integrated silencer for low noise levels and smooth, trouble-free operation.