

SINCE 1997

Making Task Much More **Easier**



PEACE OF MIND



www.zenairtech.com



ZEN AIR TECH PVT LTD which was earlier known as J K Pneumatics is capable for designing and manufacturing of Air Compressors. These are reciprocating with balancing high operating efficiency and "V" Construction. Mainly all critical components are being manufactured in house where the imported machines are installed in our plant. Zen Air Tech is ISO certified company where quality being observed at stage wise right from raw material to shipment. Zen Air Tech has well dedicated and technically sound staff which works regularly to maintain the quality standards.

Our motto is not only to satisfy the customer but delight them by providing more than expectation and requirement.

Milestone

1997	Developed & launched 1 to 30 HP reciprocating compressor.
2001	Started exporting High pressure compressor of 1000 PSIG pressure.
2005	"J K Pneumatics" became "ZEN AIR TECH PVT. LTD."
2007	Launching of indigenous "Booster Air Compressor". Power saving of up to 37%. Launched "175H water-cooled variant" for the first time in India
2008	"ZEN AIR TECH PVT LTD"-ISO & CE Certified and till date maintaining it.
2009	Launching 175H3 Model provided 54 CFM @355 PSIG in both Water/Air cooled variant.
2011	Launched "REFRIGERATED AIR DRYER SERIES".
2014	Launched "OIL LUBRICATED TWIN SCREW COMPRESSOR" 175H4 @355 delivers 72 CFM which has done a remarkable progress in the PET Industries.
2015	Developed Low pressure, Booster NL air compressor.
2016	Developed High pressure & Booster compressor in Air cooled variant.
2017	Developed 25HP Booster Air Compressor.
2018	Developed 30 HP High Pressure Air Compressor.
2021	Invented India's First Oil Free High Pressure Air Compressor 48cfm@355psig.
2023	Developed Non-lubricated Booster Air Compressor.

PRODUCT RANGE

Screw Compressor Package

Booster Package

Reciprocating High & Low Pressure Compressor

Reciprocating Vacuum Pumps

Vertical Watercooled Lub/Non Lube Compressor

Reciprocating Oil Free Compressor

High & Low Pressure Air Receiver

Other Compressor Accessories



Screw Compressor

Screw compressor packages are self contained-complete with high efficient compact air end, motor, separator tank, inlet valve, air end oil & after cooler, microprocessor based control panel & related accessories all piped, wired and mounted on a base plate. The package is enclosed in a canopy for safety & sound attenuation.

The air ends are single stage, force feed, having asymmetrical profile rotors which delivers compressed air at high volumetric efficiency and low specific horse power; compared to a reciprocating compressor.

Screw compressor packages occupy less space and easy to maintain; give long trouble free operation & deliver air with very low oil content in the discharge line. We also provide PM VSD Screw air compressors which has a intelligent control system, the latest generation high efficiency permanent motor which increases the efficiency of the motr by 5%-10%.also there is a latest generation inverter, low noise and wide working frequency range to save energy. **We also provide 16 Kg/cm² (228 psi) Screw Compressors.**



FAD & Performance
in accordance with
ISO 1217 2009 Annex C

OIL INJECTED DIRECT DRIVE SCREW COMPRESSOR										
MODEL	HP	KW	MAX WP		FAD		DIMENSION			W
			PSIG	Kg/cm ²	CFM	M ³ /min	L	W	H	
ZR-V-10L	10	7.5	100	8.0	46	1.2	900	800	1000	240
ZR-V-10M			150	10.0	34	0.9				
ZR-V-10H			175	13.0	30	0.8				
ZR-V-15L	15	11	100	8.0	65	2.0	1100	925	1115	440
ZR-V-15M			150	10.0	46	1.6				
ZR-V-15H			175	13.0	39	1.5				
ZR-V-20L	20	15	100	8.0	88	2.6	1100	925	1115	450
ZR-V-20M			150	10.0	71	2.0				
ZR-V-20H			175	13.0	60	1.8				
ZR-V-25L	25	18.5	100	8.0	113	3.2	1100	1000	1215	620
ZR-V-25M			150	10.0	95	2.5				
ZR-V-25H			175	13.0	78	2.3				
ZR-V-30L	30	22	100	8.0	131	3.9	1100	1000	1215	650
ZR-V-30M			150	10.0	113	3.0				
ZR-V-30H			175	13.0	99	2.6				
ZR-V-40L	40	30	100	8.0	181	5.4	1500	1200	1500	950
ZR-V-40M			150	10.0	160	3.9				
ZR-V-40H			175	13.0	124	3.3				
ZR-V-50L	50	37	100	8.0	240	6.6	1500	1200	1500	1060
ZR-V-50M			150	10.0	191	4.9				
ZR-V-50H			175	13.0	138	4.2				
ZR-V-60L	60	45	100	8.0	275	7.7	1500	1200	1500	1200
ZR-V-60M			150	10.0	242	5.8				
ZR-V-60H			175	13.0	212	5.1				
ZR-V-75L	75	55	100	8.0	365	10.0	1540	1140	1660	1250
ZR-V-75M			150	10.0	307	8.5				
ZR-V-75H			175	13.0	265	7.6				
ZR-V-100L	100	75	100	8.0	475	13.48	1750	1280	1590	1350
ZR-V-100M			150	10.0	449	11.61				
ZR-V-100H			175	13.0	365	9.8				
ZR-V-150L	150	110	100	8.0	717	20.3	2450	1660	1700	2200
ZR-V-150M			150	10.0	600	16.99				
ZR-V-150H			175	13.0	516	14.61				
ZR-V-220L	220	160	100	8.0	1035	29.3	2700	1460	1900	3480
ZR-V-220M			150	10.0	930	26.33				
ZR-V-220H			175	13.0	740	20.95				

Medium Pressure Screw Compressor

We also provide Medium Pressure 16 Kg/cm² (228 psi) Screw Compressors.

OIL INJECTED DIRECT DRIVE SCREW COMPRESSOR										
MODEL	HP	KW	MAX WP		FAD		DIMENSION			W
			PSIG	Kg/cm ²	CFM	M ³ /min	L	W	H	
ZR-V2-15	15	11	228	16	33	1.3	1100	925	1115	440
ZR-V2-20	20	15	228	16	52	1.6	1100	925	1115	450
ZR-V2-25	25	18.5	228	16	82	2.1	1100	1000	1215	620

Booster Air Compressor



Booster Compressor delivers high-pressure air, saving about 35% power, compared to conventional high-pressure compressors and provides more efficiency .

Model	No. of Cylinders	Motor HP	FAD CFM	Max Pressure PSIG	Kg/cm ² g
150B	2	12.5	72	500	35.15
175B	3	15	115	500	35.15
175B2	3	20	140	500	35.15
200B	3	20	155	500	35.15
200B1	3	25	200	500	35.15
200B2	3	30	230	500	35.15

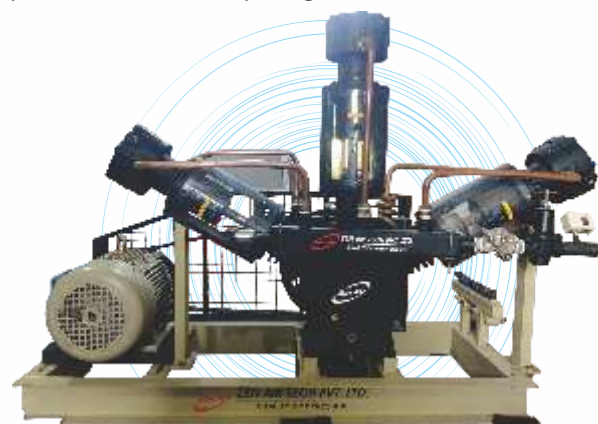
Note:

Screw air compressor is selected as per the requirement of the low pressure air in booster package.

Non-lubricated Booster Air Compressor.

Model	No. of Cylinders	Motor HP	FAD CFM	Max Pressure PSIG	Kg/cm ² g
200BNL	3	25	165	500	35.15
200B2NL	3	30	190	500	35.15

This booster air compressor is specially designed for pet (polyethylene terephthalate) and pharmaceutical and food industry. As this non-lubricated water cooled booster compressor is more efficient and increase in product purity and safety. Which also provides low maintained and low ownership cost. We are India's first company which have invented non lubricated- booster air compressor.



Oil Free High Pressure Air Compressors:

Model	No. of Cylinder	Motor HP	Comp RPM	PD CFM	FAD CFM	Max Pressure PSIG	Kg/cm ² g	Air Receiver (Liters) (Hori.)
175H3-OF15	3	15	660	49	39	355	25	500
175H3-OF20	3	20	900	66	48	355	25	500

The main use of oil free air compressor is 0% oil in air output. Helps in reduction of maintenance due to no use of oil , low noise air purity . More efficient and new technology piston rings are used for oil free air compressors. Can withstand high temperature and provides durability .

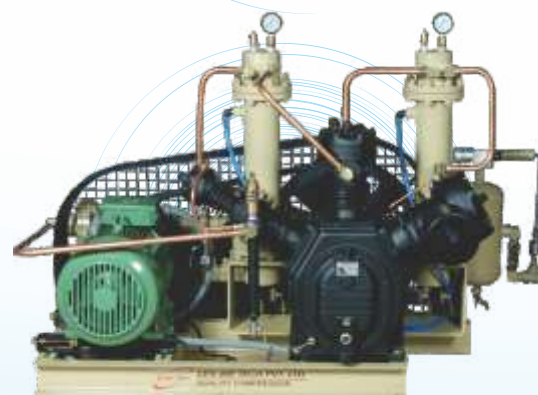


High Pressure Air Compressor

High pressure Air cooled/Water cooled (Optional inter cooling) for higher performance & longer reliability of moving components which give power saving to extent of 15%.

Wide ranges of operating pressure 285 PSIG to 1000 PSIG

HIGH PRESSURE								
Model	No. of Cylinder	Motor HP	Comp RPM	PD CFM	FAD CFM	Max Pressure PSIG	Kg/cm ² g	Air Receiver (Liters) (Hori.)
75H	2	3	660	7.4	4.8	500	35.15	150
150H	2	15	900	40.92	24.3	500	35.15	300/500
175H	3	15	750	41.26	31.41	500	35.15	500
175H	3	20	900	49.47	37.7	500	35.15	500
175HH	3	20	900	49.47	36.9	1000	70	500
175H Duplex	3	20 x 2	900	99	76	500	35.15	500



Specially Designed Models For PET Industries



On customer's demand and market research, introduced our newly developed models for the PET applications.

SPECIALLY DESIGNED FOR PET INDUSTRIES								
Model	No. of Cylinder	Motor HP	Comp RPM	PD CFM	FAD CFM	Max Pressure		Air Receiver [Liters] (Hori.)
140M	2	10	800	32	26	285	20	300
175H3	3	20	800	72.68	54	355	25	500
175H3	3	20	700	60	45	425	30	500 / 1000
175H4	3	25	900	98.94	72	355	25	500
175H4	3	25	700	85.33	64	425	30	500 / 1000
175H3 Duplex	3	20 x 2	800	145.36	108	355	25	750/1000
175H4 Duplex	3	25 x 2	900	197.88	144	355	25	750/1000
175 H5	3	30	850	111.85	85	355	25	500/1000

Single and Two Stage Air Compressor

Standard Pressure Two Stage Air cooled continuous duty Industrial Air Compressor From 1HP to 30HP.



LOW PRESSURE (Max pressure upto 175 PSIG)								
Model	No. of Cylinder	Motor HP	Comp RPM	PD CFM	FAD CFM	Max Pressure		Air Receiver [Liters] (Hori.)
25S	1	1	750	5.15	3.76	125	8.75	60/100
25S	1	1.5	900	6.2	4.7	125	8.75	60/100
50S	2	2	750	10.31	7.52	125	8.75	100/150
50S	2	3	900	12.36	9.06	125	8.75	100/150
75L	2	2	660	7.42	5.63	175	12.3	100/150
75L	2	3	866	9.74	6.93	175	12.3	100/150
7500L	2	3	1000	11.25	8.65	175	12.3	150
100L	2	5	866	17.3	13.02	175	12.3	200/250
1000L	2	5	866	17.32	13.99	175	12.3	200/250
125L	2	7.5	660	26.25	19.7	175	12.3	250/300
1000L	2	7.5	1100	22	17.8	175	12.3	250
125L	2	10	866	34.42	25.85	175	12.3	250/300
125L Super	2	10	900	36	28	175	12.3	250/300
140L	2	10	900	36	28.5	175	12.3	300/500
1400L	2	10	950	37.8	30	175	12.3	300/500
150L	2	12.5	800	44	34.14	175	12.3	300/500
1400L	2	12.5	1050	41.73	35	175	12.3	300/500
150L	2	15	900	68	43	175	12.3	300/500
175L	3	15	750	68.2	49.83	175	12.3	500
175L	3	20	900	81.77	59.8	175	12.3	500
200L	3	20	750	82.45	70	175	12.3	500
200L	3	25	950	104.4	80	175	12.3	500
200L	3	30	1100	121.03	93.2	175	12.3	500

NOTE: Models 75L to 175L for higher working pressure up to 17.5 kg/cm².g are also available on request. All performance as per IS 5456

Medium Pressure Single Stage High Volume Air Cooled Continuous duty industrial Air

Oil Free Low Pressure Air Compressors:



The main use of oil free air compressor is 0% oil in air output . Helps in reduction of maintenance due to no use of oil, low noise air purity. More efficient and new technology piston rings are used for oil free air compressors. Can withstand high temperature and provides durability .

LOW PRESSURE (Max pressure upto 175 PSIG)								
Model	No. of Cylinder	Motor HP	Comp RPM	PD CFM	FAD CFM	Max Pressure		Air Receiver [Liters] (Hori.)
75-OF	2	3	866	14.5	10.2	115	8.0	100/150
100-OF	2	5	866	24.85	17.16	115	8.0	150/200
140-OF	2	10	800	49	30	150	10.0	300/500
175-OF	3	15	800	68	42	150	10.0	500
175-OF	3	20	900	81	52	150	10.0	500

Vacuum pump

Single/Two stage clean air piston type vacuum pump applicable for Ceramic/Paper mill/Hospitals/Carbon & Asbestos processing industries.



Single stage

MODEL	MOTOR HP	RPM	PD CFM	MAXIMUM VACUUM
75 V	2	950	21.6	29" Hg
100 V	2	866	34.6	29" Hg
125 V	5	750	60	29" Hg
150 V	7.5	1000	110	29" Hg
175 V	10	900	149.6	29.2" Hg

Two stage

MODEL	MOTOR HP	RPM	PD CFM	MAXIMUM VACUUM
75 V2	2	950	10.8	29.6" Hg
100 V2	2	866	17.3	29.6" Hg
125 V2	5	750	30	29.7" Hg
150 V2	7.5	1000	55	29.6" Hg
175 V2	10	900	99	29.6" Hg

Air Dryer



Features and Advantages

- Compact & Innovative design
- Non cyclic consumption
- Low energy consumption
- Constant Dew point
- Load handling capacity 0 to 100% without freezing
- Special controls for constant evaporating & condensing temp.
- Low maintenance & easy to service.
- Eco Friendly
- Customized Air/Water cooled models
- Easy in installation & Operation
- Specialized ranges from 0.5 kg/cm².g to 80 kg/cm².g

Range and Capacities

Refrigerated Type Air Dryer Flow	10 CFM to 1000 CFM
Operating Pressure	0.5 kg/cm ² to 80 kg/cm ²
Operating Temperature	30°C to 60°C
Desiccant Type Air Dryer Flow	5 CFM to 500 CFM
Operating Pressure	7 kg/cm ² to 40 kg/cm ²
Operating Temperature	40°C
Heat Exchanger	30 CFM to 1000 CFM
Moisture Separator	30 CFM to 1000 CFM

- MIMIC DISPLAY ...indicates
- Air circuit
- Refrigeration circuit
- Digital display of dew point indicator
- System ON/OFF control switch

NOTE: Dryers above 800 CFM are manufactured with Aluminium plate heat exchanger

CORRECTION FACTOR

Inlet air temp	40	45	50	55	60				
Factor C1	1.14	1	1	0.8	0.7				
Ambient	25	30	35	40	45	50			
Factor C2	1.2	1.1	1.02	1.01	1	0.8			
Pressure	4	5	6	7	8	9	10	12	16
Factor C3	0.8		0.89	1	1	1.05	1.09	1.12	1.16

$$\text{Corrected Flow} = \frac{\text{Designed flow}}{c1 \times c2 \times c3}$$

Compressed Air Filters

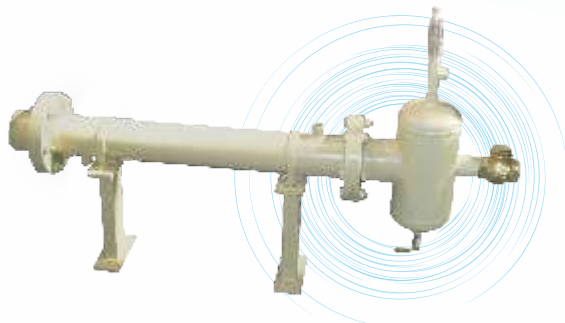


Grade	MS	PF	AF	FF	OF
Particle Removal	10	3-5	0.1	0.01	0.01
Oil Removal	-		0.1mg/m ³	0.01mg/m ³	0.003mg/m ³
Pressure Drop	0.02 Bar	0.03 Bar	0.05 Bar	0.06 Bar	0.12 Bar
Media	Poly propylene or Borosilicate	Poly propylene	Borosilicate	Borosilicate	Borosilicate with activated carbon
Efficiency	95%	95%	99%	99.99%	99.99%

- Zen air filter cartridge production includes 3 filtration stages which are designed to remove particulates, water, oil, vapour from compressed air.
- The design of filter media ensures the effective and efficient removal of most of contaminants in compressed air systems.
- All materials are suitable for operation in the temperature range upto 150°C. They are corrosion resistant and suitable for most of applications.
- The filter and cartridge size is determined by the compressed air flow. They all are designed for operating pressure up to 16 bar & 45 bar

Water Cooled After Coolers

Water cooled After cooler with Moisture Separator is a Shell and Tube type Heat Exchanger which reduces the temperature of compressed Air and as a result Moisture from the Compressed Air is Separated

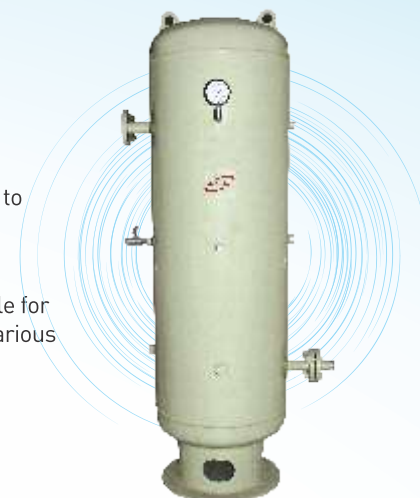


Air Receivers

Mfg. Range :
From 30 Ltrs to 5000 Ltrs.

Max Working Pressure :
From 80 PSIG (5.6 kg/cm²g) to
1000 PSI (70.3 kg/cm²g)

Vertical or Horizontal suitable for
Low & High pressure with various
material of construction and
different modes.



Auto Drain Valves



EDV - 161 (MD)

MWP	ORIFICE	FEATURES	APPLICATION	REMARKS	CONNECTION SIZE
16 kg/cm ² .g	3.5 mm & 5 mm	Poppet type, Compact with manual drain on power failure, Fault indication, test switch	Small receivers, Moisture separators, Drip legs	PEM Product, Low cost, High performance, 12 Months warranty	1/2", 3/4", 1"



EDV - 351

MWP	ORIFICE	FEATURES	APPLICATION	REMARKS	CONNECTION SIZE
35 kg/cm ² .g	1.3 mm	Poppet type, Compact	Small receivers	Low cost, High performance, - Valve for high pressure applications	1/2"

Universal Filter

- Rated Voltage : 415 Vac \pm 10%
- Rated Current : 12 - 14 Amp Each Phase
- Rated Freq. : 50/60 Hz
- Connection : Delta / Parallel
- Ambient Temperature : 10° - 50° Celsius
- Optimizes The Power Factor of Motors
- Reduce The Demand at Meter
- Reduce Reactive Power
- Can Stop Unusable Energy
- Unit Size Commercial (Three Phase) is 8" x 8" x 3"



SAVE FROM 5-25% OF ENERGY

Diesel Driven Compressor

Model: 200LDD30



Reliable.Flexible .Easy to Maintain.Simple to Use.

When you need portable jobsite power, you can count on ZEN DIESEL compressors.

Every model in the line shares the same dependable design and smart features to enhance productivity.

These units are an excellent partner for pneumatic tools such as rock drills, breakers, air guns, wrenches, dewatering pumps and abrasive blasting equipment

Spare Parts



Improved design for optimum performance

Valve Parts: High grade stainless steel valves having reed type/ring type construction to provide comparatively higher efficiency & life.

Crankshaft: Overhung construction, well balanced for reciprocating & rotary unbalanced forces.

Connecting rod: Rigid construction with optimum cross sectional area to take up loads & transfer rotary motion to reciprocating motion and are having dippers to facilitate splash lubrication.

Cylinders: Cast from high tensile strength casting with deep radial fins for efficient heat dissipation.

Flywheel: Balanced & designed for reduced vibration, cooling & to provide smooth start & stop.

Inter cooler: Equipped with copper finned tubes for efficient inter cooling.

Standard Scope of Supply:

BARE

Fly wheel
Motor Pulley
Suction Filter
Inter stage Safety Valve

BASE PLATE MOUNTED

Fly wheel
Motor pulley
Motor slide rails
V-belts, belt guard
Suction air filter
Inter stage safety valve

AIR RECEIVER MOUNTED (HORIZONTAL)

Fly wheel
Motor Pulley
Motor slide rails
V-belts, belt guard
Suction air filter

Inter stage safety valve
control -ASSC
Pressure gauge
Safety valve
Drain valve
Service valve

why prefer?

Zen Air Tech
compressor



ZEN AIR TECH PVT. LTD.®
PEACE OF MIND

- Company having more than two decades of experience in the compressor industry.
- Well equipped in house manufacturing, assembly & testing facilities.
- A team of dedicated professionals & work force.
- Company credited with ISO 9001:2015.
- Maintaining manufacturing standards to IS 2821.
- Performance conforming to ISO 1217.
- Excellent after sale support.

CM-14, GIDC, Estate, Nr. Siddheshwari Estate, Naroda, Ahmedabad - 382 330 Gujrat, INDIA.

Phone: +91-79-2281 9821 | Mobile: +91-93286 82286 / +91-9328423099

Email: info@zenairtech.com | Website: www.zenairtech.com

Note : Due to our continuous efforts to improve products, specifications mentioned above may change without notice or obligation.