Deep Pneumatics®
Transformation towards sustainable growth

LUFTKRAFT
RECIPROCATING PISTON TECHNOLOGY

Reciprocating Piston Technology

Air Compressor | Air Booster | Vacuum Pump

1HP to 40HP

Flexible Drive - Piston Technology

Reciprocating Piston
Air Compressor

Why Reciprocating Air Compressor ?

Reciprocating air compressors are preferred because of their strong construction and long-term reliability. Built with a robust compressor block, compact crankcase, and high-quality piston rings, they can operate smoothly even in demanding industrial environments. Their durable design ensures consistent performance over many years.

They are also known for high efficiency and stable air delivery. With industrial air filters, energy-efficient motors, and effective heat removal through air-cooled after-coolers, these compressors maintain steady pressure while using less power. This results in lower operating costs and dependable performance across various applications.

Another advantage is their ease of service and user-friendly monitoring. Features like running-hour counters, reliable valve assemblies, and full safety guards help operators maintain the system effortlessly. Lower operating temperatures and minimal oil carry-over further reduce maintenance frequency.

Reciprocating compressors offer long life, high durability, and reliable performance. They ensure consistent efficiency, safe operation, and lower operating costs—making them a smart, energy-conscious choice for any industry needing dependable compressed air.

Unique Features	Advantages	Customer Benefits
Robust Compressor Block	Reliable Operations	Long Life
Compact Crankcase	High Pressure Operations	Higher Durability
Industrial Air Filter	Effective Filtration	Improved Service Life
Energy Efficient Electric Motor	Low Power Consumption	Energy Savings
Electric Panel with Hour Counter	Ready to Start	Easy Service Monitoring
Air-Cooled After Cooler	Efficient Removal of Heat	Lower Operating Temperature
High Quality Piston Rings	Improved Performance	Low Oil Carry-Over
Reliable Valve Assembly	High Efficiency	Long Service Duration
Full Coverage Belt Guard	Safe Operation	Higher Safety

Technical Parameters Piston Air Compressor
Single Stage - Low Pressure

Model	Motor Power		No. Of Cylinder	Maximum Working Pressure		Capacity CFM		Air Receiver
	HP	KW		PSIG	BAR	P.D.	FAD	LITRES
DP 1065A	1	1	1	125	8.78	4.5	3	70
DP 2755	2/3	2/3	2	125	8.78	10.30/13.50	6.8/8.9	120
DP 335	3	3	2	80	5.62	15.2/22	10.50/16	150
DP 344	5/7.5	5/7.5	2	80	5.62	26.50/35	18/24	225
DP 355	7.5/10	7.5/10	2	80	5.62	40/53	29/37	250
DP 107S	10/12.5	10/12.5	2	60	4.22	69/82	46/56	300
DP 107S 2	12.5	12.5	2	40	2.81	88	66	300
DP 115S	15/20	15/20	3	60	4.22	95/123	62/80	500

USER INDUSTRIES: Air Jet Cleaning, Spray Painting, Agriculture, Dairies, Plastic Processing, Air Lift Pump, Food Processing etc.

Note:
Free Air Delivery (FAD) tested as per IS 5456
Due to continuous improvement, specifications are subject to change without prior notice
Product image is only for representation

Technical Parameters Piston Air Compressor
Two Stage - Medium Pressure

Model	Motor Power		No. Of Cylinder	Maximum Working Pressure		Capacity CFM		Air Receiver
	HP	KW		PSIG	BAR	P.D.	FAD	LITRES
DP 334	2/3	1.5/2.2	2	175	12.3	7.6/10.80	5.4/7.8	160
DP 2440	3	2.2	2	175	12.3	11.25	8.6	150
DP 342	5/7.5	3.7/5.5	2	175	12.3	17.4/20	13/15	200
DP 2575	7.5	5.5	2	175	12.3	22	17.5	250
DP 353	7.5	5.5	2	175	12.3	26.23	20.2	250
DP 2645	7.5/10	5.5/7.5	2	175	12.3	30/38	23/30	300
DP 171T2	10/12.5/15	7.5/9.3/11	2	175	12.3	40/50/55	30/37/41	300
DP 115T	15/20	11/15	3	175	12.3	64/82	46/60	500
DP 125T	20/25/30	15/18.5/22	3	175	12.3	82/99/110	60/72/80	500

Above models will be available on request for higher working pressure up to 17.5 Bar

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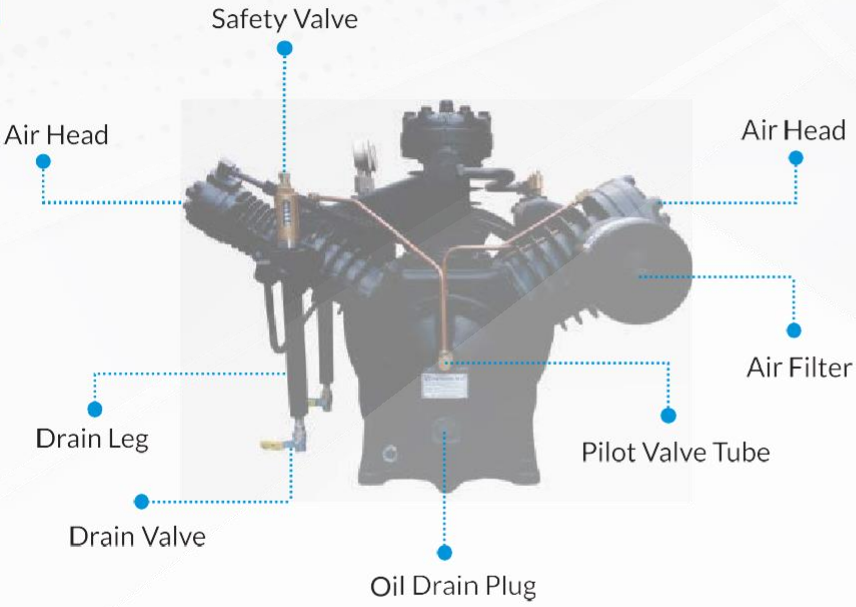
Technical Parameters Piston Air Compressor Multi Stage - High Pressure



Model	Motor Power		No. Of Cylinder	Maximum Working Pressure		Capacity CFM		Air Receiver
	HP	KW		PSIG	BAR	P.D.	FAD	LITRES
DP 331	3	2.2	2	500	35	7.6	4.6	150
DP 107T2	7.5	5.5	2	500	35	24.75	14.5	300
DP 107T2	10	7.5	2	500	35	32.25	19	300
DP 107T2	12.5	9.3	2	500	35	36	21.5	300
DP 115T2	15	11	3	500	35	42	31.4	500
DP 115T2	20	15	3	500	35	50	37	500
DP 115T2	20	15	3	1000	70	48	31.6	500
DP 115TH	20	15	3	355	25	69	54	500
DP 125TH	25	18.5	3	355	25	88	72	500
DP 115T2 (DUPLEX)	20+20	15+15	3+3	500	35	100	74	500
DP 115TH (DUPLEX)	20+20	15+15	3+3	355	25	138	108	500

USER INDUSTRIES: PET Bottling, Engine starting, Pneumatic testing, Air Blast Circuit Breaker, Gas Transmission & Distribution, Oil Exploration, Ship Yard etc.

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Technical Parameters of Piston Air Booster High Pressure - PET Blowing Package

Boosters

- 5–13 bar intake pressure alternatives
- Max. 40 bar working pressure
- Load–unload working system
- Specially designed for long life and problem free working for pet blowing industry

Safety Features

- Intake air control system
- High pressure safety valve
- Manual drain valve
- Non-return valve
- Belt-pulley guard
- Outlet pressure gauge
- Air inlet and outlet hoses & connections
- Vibration pads

Other Features

- Automatic discharge system for loadless start
- Long-life bearings
- Air-cooled/water cooled after cooler
- Air intake filter silencer for loadless operation
- Oil splash lubrication system
- Special designed fan type cast iron pulley
- Special discharge system preventing oil leakage from blow down valve

Model	Air Booster	Screw Air Compressor	Maximum Working Pressure	Capacity FAD	Air Receiver
	Motor HP	Motor HP	BAR	CFM	LITRES
DP BO -10	10	20	35	60	300
DP BO -12.5	12.5	25	35	95	300
DP BO -15	15	30	35	115	300
DP BO -20	20	40	35	140	500
DP BO -25	25	50	35	165	500

NOTE :
- Above all specifications are subject to minimum 8 BAR inlet pressure.
- Above all models available upto 40 BAR Maximum working pressure on request.
- Can be customized as per requirement.
- Above specifications will be changed based on variation of inlet air pressure & outlet air pressure.

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Technical Parameters of Vacuum Pumps Single and Two Stage (Dry Type)

Model	Motor		No. of Cylinder	Piston Displacement	Vacuum (HG)
	HP	KW		CFM	INCH
DPV 335	2	1.5	2	21.6	29
DPV 335T	2	1.5	2	10.8	29.6
DPV 344	3	2.2	2	34.6	29
DPV 344T	3	2.2	2	17.3	29.65
DPV 355	5	3.7	2	60	29
DPV 355T	5	3.7	2	30	29.7
DPV 107	7.5	5.5	2	110	29
DPV 107T	7.5	5.5	2	55	29.65
DPV 115	10	7.5	3	149.6	29.2
DPV 115T	10	7.5	3	99	29.65

USER INDUSTRIES: Vacuum Impregnation, Sugar, Hospital, Dental Clinics, Laboratories, Packing, Glass, Dairies, Chemical, Food Processing, Paper & Printing etc.

Standard Scope of Supply for Complete Compressor Package

Bare Compressor, Suction Air Filter, Air Receiver, Receiver Fittings: Safety valve, Pressure Gauge, Service valve, Manual / Auto Drain valve Pressure Switch / Auxiliary valve ASSC / CSC regulation, V-belt, Belt Guard, Motor Pulley, Motor Slide rail, Motor & Starter

Optional Accessories

- Receiver – Vertical or loose
- Drive – Motor or Engine
- Control Panel for Centralised control & Display of Parameters
- Also Available Base Plate Mounted, Portable & Tailor Made Project

Note:
Capacity Performance at sea level
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What is 100% Oil Free Compressed Air?

Based on the oil lubrication for air compressor, one can differentiate air compressor under two broad categories like oil-free air compressors and oil-lubricated air compressors. Some of the oil-free air compressors require oil lubrication in some parts however the main compression chamber does not require any oil in an oil-free air compressor.

Oil-lubricated air compressors have piston rings inside the compression chamber. This piston rings requires oil lubrication to reduce the wear & tear apart from metal to metal contact. Hence the air inside these compressors comes in contact with the oil, which makes the compressed air oil-contaminated & not suitable for many critical applications.

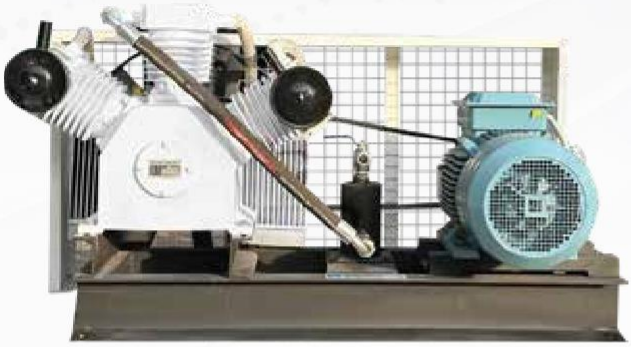
The compressed air, free of any oil contamination, is oil-free compressed air. There are special types of compressors, such as oil-free reciprocating piston air compressors, capable of delivering uncontaminated air. Oil-free compressed air has many applications.

Oil-free compressed air ensures pure air quality without any risk of contamination. It reduces filtration requirements and supports strict quality standards. This makes it ideal for sensitive and critical applications.

100% Oil Free Reciprocating Piston Air Compressor: DPOF Series

Unique Features	Advantages	Customer Benefits
100% Oil Free Air	Oil-free Air with Zero Contamination	100% Peace of Mind
Industrial Duty Compressor Block	Improved FAD & Performance	Lower Operating Cost
High Efficiency Electric Motor	Higher Electrical Efficiency	Lower Running Cost
Superior Teflon Piston Rings	Lower Wear & Tear	Lower Running & Maintenance Cost
High Efficiency Valve	Consistent Performance	Reliable Operations
Low Vibrations	Easy Installation	Saving on Installation Cost
Lower Noise Level	Point of Use Application	Lower pressure drop, energy saving
Environment Friendly	Zero Oil Content	Compliance with Regulatory Body

DPOF Series, 100% Oil Free Reciprocating Piston Air Compressor



The DPOF Series 100% Oil Free Reciprocating Piston Air Compressor is designed to deliver completely clean and contamination-free compressed air for critical industrial applications. Ideal for pharmaceutical, food processing, textile, and other sensitive industries, it ensures the highest air purity standards without the risk of oil carryover. Built with a heavy-duty reciprocating mechanism, it offers reliable performance, stable pressure output, and long service life. The energy-efficient motor and advanced control panel enable smooth operation, easy monitoring, and enhanced safety. With its robust construction and low maintenance design, the DPOF Series provides dependable, high-quality air for demanding environments.

Technical Specifications

Model	No. of Cylinder	Motor	Pressure	Capacity FAD	Tank Capacity (LITRES)	Outlet BSPF	Weight	Dimensions
		HP	PSIG	CFM			KG	L x W x H-MM
DP270NL	2	2	116	5	120	1/2" BSP F	200	1400 x 610 x 920
DP370NL	2	3	116	7	150	1/2" BSP F	220	1400 x 610 x 920
DP595NL	2	5	116	14	200	1/2" BSP F	300	1400 x 610 x 1050
DP7395NL	3	7.5	116	28	250	1/2" BSP F	340	1650 x 700 x 1095
DP7395TNL	3	7.5	160	19	250	1/2" BSP F	340	1650 x 700 x 1095
DP1311N	3	10	116	37	300	1/2" BSP F	415	1850 x 700 x 1095
DP1311T	3	10	160	25	300	1/2" BSP F	415	1850 x 700 x 1095
DP1525NL	3	15	116	40	500	1" BSP F	535	1850 x 800 x 1200
DP1525TL	3	15	160	32	500	1" BSP F	535	1850 x 800 x 1200
DP2030TNL	3	20	160	45	500	1" BSP F	585	1850 x 800 x 1200

Available Options:

Base Mounted

- **Silenced Canopy – To eliminate the noise in-line with industry specific regulations.**
- **Variable Speed Drive – Energy Savings to optimise the performance.**
- **Multi-compressor Control – Single control panel to control up to 6 Compressors**

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DPOF Series, 100% Oil Free Reciprocating Piston Air Compressor

Application of 100% Oil Free Compressed Air:

Medical & Healthcare	Defence
Gas Chromatography	Electronics
Research Laboratory	Precision Cleaning
Food Packaging	Painting
PSA Generation	Speciality Chemicals
Pharmaceuticals	Gem & Jewellery
Dairy	Oil & Gas

Many more..
To meet with such a demanding performance in various compressed air applications

Air Treatment Equipments

REFRIGERATED AIR DRYER

DPRD SERIES

Capacity: 10 - 2000 CFM
Pressure Dew Point:
-40/-70 Deg C

HEATLESS AIR DRYER

DPHL Series

Capacity: 10 - 2000 CFM
Pressure: 7 - 40 Bar
Rating: 1 - 0.003 mg/m³

OIL REMOVAL FILTERS

DPORF Series

Capacity: 10 - 3000 CFM
Pressure Dew
Point: 3 Deg C

Original Parts and Services

Deep Pneumatics original spare parts & services are offered to ensure healthy running of the equipment. Usage of original spare parts also ensures unexpected break-down resulting in production loss. We offer options of service plans to meet with customer requirement & expectations.

AIR COMPRESSOR PURIFICATION SYSTEM

Screw Air Compressor

Air Receiver

Filter

Refrigerated Air Dryer

Filter

ISO8573.1 Class2.3
General Protection

Pneumatic Tools
Control Valve General Instrument
Precision Paint Spray & Plas

Filter

ISO8573.1 Class 1.4.2
Oil free Compressor alternative

- Precision Industry
- Precision Instrument
- Textile
- Chemical
- Fiber Technology
- Electronic Industry & Cement

Filter

ISO8573.1 Class1.4.1
Oil & Smell Free Processing Method

- Hospital
- Petrochemicals
- Oil & Gas
- Pharmacy
- Bacteria-free Package & Food Industy

Filter

Compressed Air Dryer

Filter

ISO8573.1 Class1.1.1
Super Dew Point Processing Method

- Chemical Analysis Lab
- Food, Dairy, Brewery
- High Voltage Insulation
- Optical lens
- Microelectronic Chip Making

ALUMINIUM ALLOYS AIR PIPING SYSTEM

ANTI-CORROSIVE

Energy Saving

AIRTIGHT

ADVANTAGES OF ALUMINIUM ALLOYS PIPING SYSTEM

SAFE | FAST | DURABLE | ENERGY SAVING | ENVIRONMENT PROTECTION

Our Widespread Sales Network: