

DENAIR®

Piston Air Compressor

(Standard、Silence、Oil Free、Middle
High Pressure Series、Booster Series)

Product Brochure



Energy Saving First Mutual Value Shared



Company Profile

Shanghai Denair Group Co., Ltd is large-scale professional compressor researching and developing,producing and marketing sino-foreign joint venture enterprise. The company brought in advanced compressor R&D and manufacturing technology of Germany Denair Group,according to operating conditions of China to make product development and large-scale production, including piston air compressors, double screw air compressors,combined air compressors,permanent magnet variable frequency air compressors,diesel portable air compressors,high pressure air compressors, oil-free air compressors and compressed air purification equipment.

Denair compressor not only set up integrated R&D and testing center, but also passed ISO9001, CE, GC,NEETLC etc.

Denair compressor established the special exhibition rooms plus 4S sales and service system in compressor industry.The sales and service network is divided into Domestic 8 areas: East China, South China, North China, Northwest China, Central China , Northeast China, Southwest China and Yangtze Delta and we set up offices in major cities of China to provide our customers with excellent and quick maintenance and repair services through our excellence service staffs.

There are also complete sales and service system all over the world, such as Africa Middle East, South America, Southeast Asia, North America, Australia, United States, etc. There are over 200 distributors worldwide.

Energy Saving First, Mutual Value Shared,Denair would like to become your best friends in compressed air systems.



Quality Certificate Authentication



GC Energy-saving Certification



CE European Union standard Certification



ISO9001 the United Kingdom LRQA Certification

DENAIR Piston Air Compressor

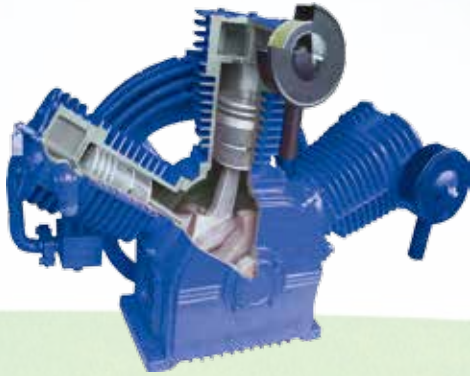
(Standard 、 Silence、 Oil Free、 Middle High Pressure Series、 Booster Series)

DENAIR Piston air compressors are widely cited in road construction machinery, printing machinery, textile machinery, washing machines, automobile maintenance, woodworking machinery.



DENAIR Piston Compressor

Core Components



Air Valve



High efficiency strip valve, made by high corrosion resistant stainless steel for precision machining, high temperature resistant material lift restrictions, effectively reduces the noise and improves the service life of valve group to ensure the continuous operation of compressor.

Piston Rings, Guide Ring



Made by special self-lubricating materials for precision machining, with good character of high abrasion resistance and temperature resistance, increase special stainless steel elastic ring structure, to enhance the sealing effect and long-term continuous use.



Crankcase Ventilation

In both sides of the crankcase increase ventilation system, effectively reduces the temperature of bearing during operation, improves the service life of bearing and controls the temperature of continuous work.

Bearing



High precision sealed grease lubricated bearing, using the high temperature resistance grease to make sure the long service life and continuous operation of bearing.

Connecting Rod



Using special aluminum alloy material with high corrosion resistance and high strength, after die casting precisely machining, boring and rolling behind with special machine, to ensure the continuous operation of compressor more smooth.

Cylinder



High efficiency strip valve, made by high corrosion resistant stainless steel, reduce the noise and improved service time.

Piston



Made by cast aluminum material, with good character of antirust, antiseptic and excellent performance of thermal conductivity.

Product Features

1、The structural design of long life

With large diameter of friction, low friction pressure, and high quality materials and heat treatment, the air compressors have long service life.

2、Low noise

Professional valve and flow channel design, and matched patent intake silencer, makes the lowest noise.

3、High performance and high reliability

Efficient cooling system and power system and imported key parts, reliable control components, produced the high performance and high reliability of the piston type air compressor.



Technical Parameters

Specification	Air delivery	Working pressure	Motor power		Revolution number	Air tank	Overall dimension	Weight
			HP	KW				
Model	m ³ /min	Mpa			r/min	L	L×W×H (mm)	Kg
DT-0.75/0.8	0.75	0.7	7.5	5.5	850	250	1810×635×1370	320
DT-0.6/1.4	0.6	1.25	7.5	5.5	710	250	1810×635×1370	320
DT-1.05/0.8	1.05	0.7	10	7.5	850	312	1810×635×1370	380
DT-0.8/1.4	0.8	1.25	10	7.5	940	312	1810×635×1370	380
DT-1.55/0.8	1.55	0.7	15	11	950	312	1870×690×1410	548
DT-1.15/1.4	1.15	1.25	15	11	850	330	1870×690×1410	548
DT-2.15/0.8	2.15	0.7	20	15	900	500	1950×740×1520	681
DT-1.65/1.4	1.65	1.25	20	15	800	500	1950×720×1520	681
DT-3.2/0.7	3.2	0.7	25	18.5	850	500	2150×830×1590	700

DENAIR Oil Free Piston Type

Air Compressor

Low temperature、 low rotation speed、 high efficiency、 Long service life

Product Features

- 1、 Got 100% clean compressed air;
- 2、 Adopting the latest many patented technologies,fully oil free lubrication,no pullution for enviroment,which is environment-friendly product;
- 3、 Easy to operate, convenient to use and auto-turn on and auto-turn off;
- 4、 Long service life and good reliability;
- 5、 Adopting high precision imported bearings and materials;



Low cost and consumption,saving oil and power,labor and saving cost of more than 5000RMB per year for labor and machine .Adopting the most economical and durable Nitriding corrosion new technology and molding filler polytetrafluoroethylene self-lubricating parts with good self-lubrication and corrosion resistant .

Technical Parameters

Specification	Motor power		Cylinder diameter × No.	Stroke	Speed	Air delivery	Rated pressure	Highest Working pressure	Gas tank Volume	Overall dimension	Weight
Model	HP	KW	PCS × mm	mm	r/min	m ³ /min	MPa	Mpa	m ³	L × W × H (mm)	kg
DW-0.4/7	4	3	70 × 3	55	860	0.4	0.7	0.8	0.175	1470 × 470 × 980	215
DW-0.3/12.5	4	3	70 × 2 55 × 1	55	1050	0.3	1.25	1.40	0.175	1470 × 470 × 980	215
DW-0.5/7	5.5	4	70 × 3	55	850	0.5	0.7	0.8	0.175	1470 × 470 × 980	225
DW-0.45/12.5	5.5	4	70 × 2 55 × 1	55	1050	0.4	1.25	1.4	0.175	1470 × 470 × 980	225
DW-0.65/12.5	7.5	5.5	100 × 2 80 × 1	72	780	0.65	1.25	1.4	0.25	1800 × 700 × 1460	295
DW-1.0/7	10	7.5	100 × 3	72	860	1.0	0.7	0.8	0.312	1800 × 700 × 1460	335
DW-0.75/12.5	10	7.5	100 × 2 80 × 1	72	860	0.75	1.25	1.4	0.312	1800 × 700 × 1460	335
DW-1.5/7	15	11	125 × 2 110 × 1	80	800	1.5	0.7	0.8	0.312	1800 × 780 × 1500	480
DW-1.28/12.5	15	11	125 × 2 100 × 1	80	800	1.28	1.25	1.4	0.312	1800 × 780 × 1500	480
DW-2.0/7	20	15	125 × 2 110 × 1	110	800	2.0	0.7	0.8	0.50	1910 × 800 × 1650	620
DW-1.8/10	20	15	125 × 2 100 × 1	110	800	1.8	1.0	1.15	0.50	1910 × 800 × 1650	620
DW-1.6/12.5	20	15	125 × 2 100 × 1	110	800	1.6	1.25	1.4	0.50	1910 × 800 × 1650	620
DW-3.0/7	25	18.5	125 × 3	110	800	3.0	0.7	0.8	0.50	1910 × 800 × 1650	650

Denair Mute Oil Free Piston Air Compressor



87 dB(A)d 70 dB(A)d 54 dB(A)d 42-56 dB(A)d

Concert Neighborhoods, Chat DENAIR Mute
roads oil free piston
air compressor

Product Features

1. Low noise, little vibration

No fluctuations on the smooth output pressure, maximum limit to reduce noise pollution. Suitable for the analysis of testing, laboratory equipment, universities, laboratories, research institutes, environmental protection, health and epidemic prevention and other detection department to use.

2. Steady flow. Reliable performance

Using the latest section pressure device, air output constant current regulator, making air in the atomic absorption and other laboratory instrument test with good reproducibility.

Technical Parameters

Model	Power (KW)	Max.Working Pressure (MPa)	Air Delivery (m ³ /min)	Voltage (V)	Noise (dB)	Dimension L×W×H(mm)	Notes
DW70A	2.40	0.8	0.45	220	60	690×300×660	Industrial mute
DW160	2.72	0.8	0.52	220	62	1350×400×680	
DW200	3.40	0.8	0.66	220	65	1360×450×810	
DW200A	4.80	0.8	0.92	220/380	68	1360×450×820	
DW250	7.20	0.8	1.35	220/380	68	1360×450×820	
DW35	0.80	0.8	0.15	220	55	440×440×660	Medical mute
DW65	1.60	0.8	0.30	220	60	740×340×650	
DW100	2.40	0.8	0.45	220	60	98×440×760	
DW24	0.58	0.8	0.11	220	50	550×550×720	Box mute
DW50	1.50	0.8	0.23	220	57	550×550×720	
DW70	1.70	0.8	0.33	220	57	700×700×940	
DW70G	3.00	0.8	0.45	220	60	700×700×940	

DENAIR DG series middle-high pressure piston air compressor



DG series middle-high pressure piston air compressor have skid-mounted, portable, electric, diesel-moving four categories, Composed by the compressor, electric motor (diesel), clutch, piping systems, operating systems, electrical equipment and auxiliary equipment and other components.

Mainly used for pipeline pressure test of oil exploration, sweeping lines, gas lift and other projects, as well as membrane nitrogen, heat mining, injecting natural gas for bottom of well, oil and gas, national defense industry, gas stations, etc., superior performance, high degree of automation.

Also can be used as construction requires displacement of less than $20\text{m}^3 / \text{min}$, the exhaust pressure is less than 35MPa gas source or origin station car.

Product Features

- 1、 large bore, low speed, high reliability, long service life.
- 2、 Reality displacement, non-oversized.
- 3、 No need foundation.
- 4、 Accurate safety valve and pressure gauge extremely effective Ensure the safe operation of machinery.



Technical Parameters

Title		Mode	Air delivery (m ³ /min)	Max.working pressure (MPa)	Moter power (KW)	Overall Dimension (mm)
High Pressure / Booster Series Air Compressor	2 Stage compression	DG0.8/30	0.8	3.0	9	1080×620×800
		DG1.25/30	1.25	3.0	15	1800×650×1450
		DG1.5/30	1.5	3.0	15	1500×850×1050
		DG3/17	3.0	1.7	30	1750×1050×1250
		DG6/17	6.0	1.7	45	1850×1050×1250
	3 Stage compression	DG2.2/40	2.2	4.0	22	1780×1050×1340
		DG2.2/30	2.2	3.0	22	1780×1050×1340
		DG3.3/30	3.3	3.0	30	1780×1050×1340
		DG3/40	3.0	4.0	30	1650×1250×1250
		DG0.8/100	0.8	10.0	15	1300×850×1350
		DG1/70	1.0	7.0	15	1300×850×1350
		DG1/40	1.0	4.0	15	1300×850×1350
	4 Stage compression	DG1/150	1.0	15.0	22	1650×1450×1140
		DG1/200	1.0	20.0	22	1650×1450×1140
		DG1/300	1.0	30.0	22	1650×1450×1140
		DG1/400	1.0	40.0	22	1650×1450×1140
		DG2.0/80	2.0	8.0	30	1780×1450×1140
		DG2.2/150	2.2	15.0	30	1780×1450×1340
		DG2/300	2	30.0	37	1780×1450×1340
		DG3/80	3.0	8.0	30	1780×1450×1140
		DG3/200	3.0	20.0	45	1780×1450×1340
	5 Stage compression	DG2/450	2.0	45.0	37	1780×1450×1340
		DG3/300	3.0	30.0	45	1780×1450×1340
		DG3/450	3.0	45.0	55	1780×1450×1340

Notes: Please contact Denair Sales Engineers for tailored models with required air flow and working pressure.

DENAIR Oil-free high pressure piston air compressor



1、Energy Saving and Environmental protecting, Water-less and Oil-free

Low pressure ratio, low speed, low energy consumption; Anti-oil lubricated cylinder and extended tube guarantee reliable isolation between cylinder and crankcase, to achieve 100% oil-free.

2、Superior configuration, High reliability

Piston rings, support rings, stuffing and other parts use imported PTFE resin material for long life. All valves and springs adopt imported stainless steel with unique heat treatment process. Adopt automatic inlet valve, bypass valves, variable frequency and other compressed air adjustment device to meet air demand on production line, reaching the unit fully automated operation.

3、Symmetry balanced design, low vibration, easy assembly without foundation

Technical Parameters

Model	Air Delivery (m ³ /min)	Working Pressure (Mpa)	Power (KW)	Level	Lubrication way	Cooling method	Dimension L×W×H(mm)	Weight (kg)
DGW-6/40	6	4.0	75	Three	Oil-free	Water-cooled	2500×2400×1850	5500
DGW-8/40	8	4.0	90	Three	Oil-free	Water-cooled	2800×2400×1850	5500
DGW-10/40	10	4.0	110	Three	Oil-free	Water-cooled	2800×2600×1850	6000
DGW-12/40	12	4.0	132	Three	Oil-free	Water-cooled	2800×2600×1850	6000
DGW-15/40	15	4.0	160	Three	Oil-free	Water-cooled	3800×2500×1850	6500
DGW-18/40	18	4.0	185	Three	Oil-free	Water-cooled	5300×2500×1850	8300
DGW-22/40	22	4.0	220	Three	Oil-free	Water-cooled	5300×2500×1850	8300
DGW-24/40	24	4.0	250	Three	Oil-free	Water-cooled	5600×2500×1850	9200
DGW-30/40	30	4.0	350	Three	Oil-free	Water-cooled	5600×2500×1850	9200
DGW-32/40	32	4.0	350	Three	Oil-free	Water-cooled	6200×2500×1850	9800
DGW-40/40	40	4.0	400	Three	Oil-free	Water-cooled	6200×2500×1850	9800

Notes: Please contact Denair Sales Engineers for tailored models with required air flow and working pressure.

DENAIR High pressure piston booster



- 1、 The front end is various displacement screw air compressor, the middle end is a low-pressure gasholder, the back end is booster. This three parts are the basis of pressurization system, installed on a mainframe rack. Can add the middle low pressure cooling device, the back-end high pressure cooling device and back-end high pressure gasholder according to the customers' requirements.
- 2、 Screw compressor is low noise oil-injected, screw compressor unit is mainly composed of air end, oil and gas separator, cooler and electric control system and other components.
- 3、 High-pressure piston booster connects with the motor through reducer, high elastic coupling. The air end and screw air compressor are installed on the same chassis. The overall design has compact structure and small volume.
- 4、 And screw piston compound middle- high pressure air compressor also has many advantages, such as low power consumption, low noise, less oil consumption, high reliability, long service life and so on.

Technical Parameters

Model	Air Delivery (m ³ /min)	Inlet pressure (MPa)	Working Pressure (Mpa)	Cooling method	Shaft power (KW)	Rotate speed (rpm)	Dimension L×W×H(mm)	Weight (kg)	Remark
DZ-3.5/8-30	3.5	0.8	3.0	Air/Water	15	560	1780×1050×1250	800	Need to reprovision screw air compressor can be combined skid-mounted
DZ-5/8-30	5	0.8	3.0	Air/Water	22	560	1780×1050×1250	800	
DZ-6/8-30	6	0.8	3.0	Air/Water	30	560	1780×1050×1340	850	
DZ-4/10-40	4.0	1.0	4.0	Air/Water	45	560	1600×1500×1400	1000	
DZ-5/10-40	5.0	1.0	4.0	Air/Water	55	600	1600×1500×1400	1100	
DZ-6/10-40	6.0	1.0	4.0	Air/Water	63	740	1600×1500×1400	1200	
DZ-8/10-40	8.0	1.0	4.0	Air/Water	90	420	1780×1050×1450	1200	
DZ-10/10-40	10.0	1.0	4.0	Air/Water	110	520	1780×1050×1450	1400	
DZ-12/10-40	12.0	1.0	4.0	Air/Water	132	520	1780×1050×1450	1400	
DZ-16/10-40	16.0	1.0	4.0	Air/Water	165	520	1780×1050×1450	1600	
DAZ-10/10-40	10.0		4.0	Air/Water	110	520	3600×1600×2300	5000	Screw, piston all- in- one machine
DAZ-16/10-40	16.0		4.0	Air/Water	165	520	3700×1600×2300	6500	
DAZ-20/10-40	20.0		4.0	Air/Water	205	520	3900×2000×2500	7000	
DAZ-8/10-250	8.0		25.0	Air/Water	150	520	5300×2300×2500	8000	
DAZ-10/10-250	10.0		25.0	Air/Water	180	520	5300×2300×2500	8500	
DAZ-12/10-150	12.0		15.0	Air/Water	295	520	5500×2500×2500	9500	
DAZ-20/10-40	40.0		10.0	Water	560	520	7000×2500×2400	16000	

Notes: Please contact Denair Sales Engineers for tailored models with required air flow and working pressure.



DENAIR Perfect Global 4S Sales Service Network

- 1、 Sales Service System covers the whole China, and after-sales system is of nationwide warranty
- 2、 Our 200 abroad authorized distributors around the world construct the worldwide warranty system

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