

DENAIR®

OIL FREE AIR COMPRESSOR

Product Brochure



Energy Saving First Mutual Value Shared



Company Profile

Shanghai Denair (Group) Co.,Ltd is a Sino-German joint venture enterprise group integrating R&D,manufacturing and marketing. The company brought in advanced compressor R&D and manufacturing technology of Germany Denair Group to make product development and large-scale production, including piston air compressors, double screw air compressors, Diesel Portable Air Compressors, High and Medium Pressure Air Compressors, Oil-free Air Compressors and compressed air treatment equipment.

Shanghai Denair (Group) Co.,Ltd not only set up integrated R&D and testing center, but also passed ISO9001, CE, GC,NEETLC etc.

Meanwhile, Shanghai Denair Group Co.,Ltd created unique “Showroom+4S” sales and service mode in this 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.

Denair compressor also owns integrated sales and service network in the whole world including Africa, Southeast Asia, Middle East, Middle East, South America, North America and Oceania etc. with over 200 sales points.

Energy Saving First, Mutual Value Shared, Denair compressor is willing to be your best friend.



Quality Certificate Authentication



GC energy-saving certification



CE European Union standard certification



ISO9001 the United Kingdom LRQA Certification

Oil-free scroll air compressor

Mute, Clean, Energy Saving, High Efficiency!
Providing you with 100% oil-free compressed air!

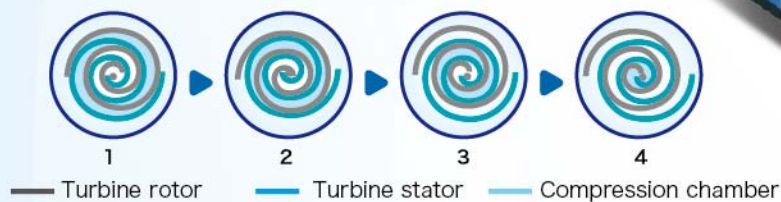
Oil-free scroll air compressor produces oil free, high quality and pure compressed air, which is widely used in Food, Medicine, Electronics, Printings, Chemicals, Precision Spraying and Golf Course etc.industries.



Oil-free Scroll Air Compressor Principles And Characteristics

Oil-free Scroll Compressor Principle

The turbine rotor turns in sequence of Picture 1→2→3→4, air is sucked into the space between turbine stator and turbine rotor, the volume of crescent-shaped(in point symmetry)compression chamber gradually decreases, compressed air is discharged through air outlet of central portion.



The main body parts



Turbine stator



Turbine rotor



Sirocco fan excellent cooling effect

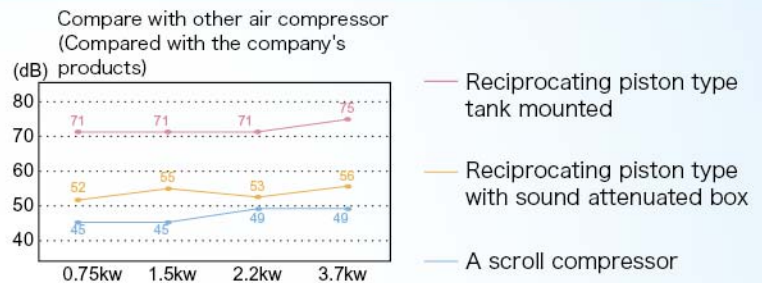


Maintain a high airtightness of a scroll-shaped sealing strip (pat.1996508)

Denair Oil-free Scroll Compressor Characteristics

Quiet

Unique silence effect and micro-vibration provide a comfortable working space, no need to worry about that it affects the environment even when runs at night.



Handy

Equipped with a high-performance microcomputer circuit board, monitor screen displays digitally running state and various kinds of failure warnings. Can equip with automatic power failure recovery function according to customers' requirement.



Monitor Screen

Clean

Without oil lubricating, discharged air is also clean. Take standard anti-rust air storage tank, discharged water is also clean. So can always keep clean environment.



Compressor equipment, stainless steel tank

Small

Smart design makes the installation area much smaller and more easy to choose the installation place.



After installation you can easily move casters. Photograph state OCX-813 installed casters



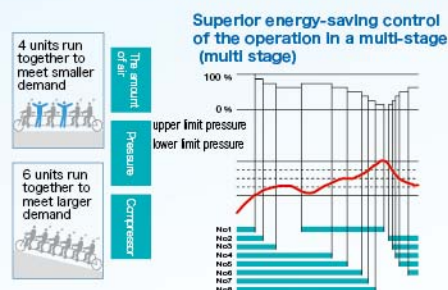
Oil-free Scroll Air Compressor

Principles And Characteristics

Energy-saving

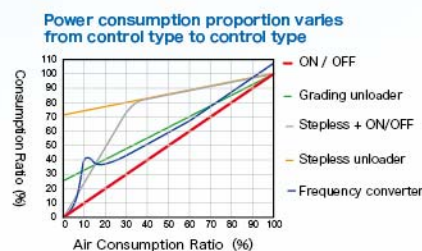
Achieve optimal operation and energy saving

Put many compressors in one computer case. According to needed air volume, through connecting the ideal numbers of air compressors intelligently to avoid unnecessary running and realize energy saving.



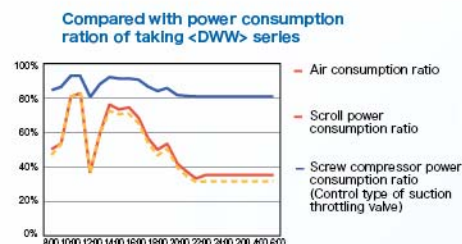
Multi-stage control can save more energy than variable frequency control

Take lowest energy consumption switch. Realize optimal running according to air volume and actual situation.



Significantly reduce power consumption, excellent energy saving effect

Large errors will be made due to different ways of controlling compressors when air consumption changes. <DWW> can reduce air consumption to a minimum, so as to improve energy saving effect.



Backup

Once failure, main body of many compressors in computer case starts to backup and run, no need to worry about the supply of compressed air.

Scroll Unit Parameter Table

Type Unit	Working Pressure Bar	Rated Power kw(HP)	F.A.D Liter/min	No.of Airend Units	Outlet Diameter inch	Noise Level Db(A)	Dimensions mm(L*W*H)	Weight kg
DWW-4S	6.0~8.0	3.7(5)	415	1	15A(1/2")	50	680*1000*950	230
	8.0~10.0		360					
DWW-7S	6.0~8.0	7.5(10)	830	2	20A(3/4")	54	680*1000*950	360
	8.0~10.0		720					
DWW-11S	6.0~8.0	11(15)	1245	3	25A(1")	56	720*1100*1640	430
	8.0~10.0		1080					
DWW-15S	6.0~8.0	15(20)	1660	4	25A(1")	58	720*1100*2015	550
	8.0~10.0		1440					
DWW-18S	6.0~8.0	18(25)	2075	5	32A(1 1/4")	59	720*1100*2015	680
	8.0~10.0		1800					
DWW-22S	6.0~8.0	22(30)	2490	6	32A(1 1/4")	61	1450*1100*1640	900
	8.0~10.0		2160					
DWW-30S	6.0~8.0	30(40)	3320	8	32A(1 1/4")	64	1450*1100*1640	1100
	8.0~10.0		2880					
DWW-37S	6.0~8.0	37(50)	4150	10	32A(1 1/4")	65	1450*1100*2015	1300
	8.0~10.0		3600					

Dry Oil-free Air Compressor

Denair dry type oil-free air compressor generates pure, class 0 oil free air according to ISO8537-1, ensures that compressed air is 100% oil free. Denair oil-free screw compressor is widely used in Medicine, Semiconductor, Printings, Chemicals, Precision Spraying and Golf Course etc.industries.



DENAIR Dry Oil-Free air compressor

Perfect combination of efficient and energy-saving

The most advanced and environmentally clean air technology components, creating a Unique DENAIR oil-free air compressor.

State-of-the-art screw element with Germany technology

Adopting the latest air end developed by DENAIR development team independently to ensure a high quality and a long working life of the air compressor.



Most Advanced And Pure Screw Technology

DENAIR dry oil-free air compressor adopts the air end special for low pressure and high pressure that developed with unique technology, also adopts the high quality components to ensure the most pure compressed air.



Air end for low pressure



Air end for high pressure



Long bearing life, very proud



Special coating for high pressure rotor



Special coating for low pressure rotor



Low pressure, high pressure Air end

DENAIR dry oil-free air compressor adopts the air end special for low pressure and high pressure that developed with unique technology, also adopts the high quality components to ensure the most pure compressed air.

High efficiency oil pump

Using a suitable pump to prevent reverse cycle oil for the smooth operation of the compressor to provide the most suitable operating environment.



Adopting cooling fan inverter

Using the most sophisticated advanced inverter automatically adjusted according to the amount of cooling load, only to run smoothly and achieve optimal energy efficiency.

The latest water separator

Using large capacity of water separator to remove the condensed water from the compressed air, which prolongs the air end working life well and provides a best running environment.



Using efficient centrifugal fan

Using the efficient centrifugal fan to provide a safety cooling system environment. It's most energy-saving with static pressure and enough air flow.

Dry Oil-free Air Compressor

Think For You, Work For You!



Intelligent control system

Assembly of large LCD display screen, stick out a mile, convenient operation;

With the compressor needs maintenance or failure, the display will automatically send warning prompt, remind customers timely maintenance or troubleshooting.

Alternate operation function



Without the use of alternate run Disk old, line connection as long as between 2 compressors, can be alternately, follow-up operation According to the set time conversion host - side machine, alternate operation (alternating function)

The amount of air is insufficient, the auxiliary machine up and running (pressure servo function) In case of the machine failure, another will start running (fault servo operation)

Dry Oil-free Air Compressor Technical Parameters

Model	Capacity/ Pressure (m ³ /min/Mpa)	Motor Power		Noise dB(A)	Dimensions(mm)		
		Power (KW)	Horsepower (HP)		L	W	H
DWW-45A/W	6.8/0.75	45	60	67	2100	1500	1790
	5.9/0.86			69			
	5.4/1.0			71			
DWW-55A/W	8.8/0.75	55	75	68	2100	1500	1790
	8.4/0.86			69			
	6.9/1.0			71			
DWW-65A/W	10.2/0.75	65	90	69	2100	1500	1790
	8.9/0.86			70			
	8.2/1.0			72			
DWW-75A/W	12.8/0.75	75	100	69	2100	1500	1790
	10.3/0.86			71			
	9.3/1.0			72			
DWW-90W	15.8/0.75	90	125	66	2900	1880	1880
	14/0.86			67			
	12.8/1.0			69			
DWW-110W	19.4/0.75	110	150	67	2900	1880	1880
	17/0.86			68			
	16.0/1.0			70			
DWW-132W	23.9/0.75	132	180	69	2900	1880	1880
	21.4/0.86			70			
	19.2/1.0			71			
DWW-160W	28.4/0.75	160	220	69	2900	1880	1880
	26.2/0.86			71			
	23.6/1.0			71			
DWW-180W	32.8/0.75	180	245	69	2900	1880	1880
	28.2/0.86			71			
	26.3/1.0			71			
DWW-200W	36.4/0.75	200	270	69	3250	2200	2150
	33/0.86			70			
	29.5/1.0			72			
DWW-220W	39.0/0.75	220	300	70	3250	2200	2150
	36.1/0.86			71			
	32.3/1.0			72			
DWW-250W	43.6/0.75	250	340	70	3250	2200	2150
	41.2/0.86			72			
	36.1/1.0			72			

Water-lubricated Oil-free Air Compressor

► Purified Air Used For Breathing

Environment-friendly

Any lubricant is not used, to avoid environmental pollution.

Reliable

Absolutely no oil protection.

Oil-free compressed air

Purified compressed air

Oil pollution risk-free Compressed system



Patented Air Inlet
Silent Design

Japan SMC
Control Element

Sweden Alfa
Lava Stainless
Water Cooler

DENAIR magnetic
drive pump

Water/gas
Separator And
Water Filter



► Why choose DENAIR water-lubricated oil-free air compressor ?



More air production, less energy consumption
(15% more air production compared with
the same power)

High efficiency, single compression exhaust
pressure up to 1.6Mpa

Warranty of absolute oil free, there is no lubricate oil
in the air end (class 0 oil free certified by Germany
Tuv examination organization)

Extreme low maintenance cost (consumption parts:
water, water filter element, air filter element)

Longest service life, lowest use cost

Stainless Steel
Liquid Level

Cooling Water
Inlet/outlet

Air Exhaust

Power Source

Outside
Connection



Water-lubricated Oil-free Air Compressor

Water-lubricated Oil-free Air Compressor Technical Parameters

Model	Max. Working Pressure(Mpa)	FAD (m ³ /min)	Motor Power (KW)	Noise[dB(A)]	Weight(Kg)	Cooling Water Inlet Pipe Diameter	Cooling Water Capacity	Air Outlet	Dimensions(L*W*H)mm
DAW-7A	0.8	1.15	7	58	630	3/4"	2	3/4"	1550×775×1445
	1	1.02							
DAW-11A	0.8	1.55	11	58	650	3/4"	2.5	3/4"	1550×775×1445
	1	1.32							
	1.25	1.02							
DAW-15A	0.8	2.4	15	63	900	1"	3.5	1"	1900×1000×1635
	1	2.12							
	1.25	1.61							
DAW-18A	0.8	3.1	18	65	970	1"	4	1"	1900×1000×1635
	1	2.62							
	1.25	2.13							
DAW-22A/W	0.8	3.5	22	65	1000	1"	5	1"	1900×1000×1635
	1	3.13							
	1.25	2.61							
DAW-30A/W	0.8	5	30	66	1250	1 1/4"	7	1 1/2"	1900×1050×1430
	1	4.2							
	1.25	3.81							
DAW-37A/W	0.8	6.1	37	67	1270	1 1/4"	9	1 1/2"	1900×1050×1430
	1	5.22							
	1.25	4.81							
DAW-45A/W	0.8	7.3	45	68	1500	1 1/2"	10	2"	2200×1350×1530
	1	6.13							
	1.25	5.65							
DAW-55A/W	0.8	9.6	55	70	1596	1 1/2"	12	2"	2200×1350×1530
	1	8.6							
	1.25	7.42							
DAW-75A/W	0.8	12.5	75	73	1790	1 1/2"	18	2"	2200×1350×1530
	1	11.42							
	1.25	9.83							
DAW-90A/W	0.8	16.3	90	73	2250	2"	20	2 1/2"	2500×1400×1605
	1	14.52							
	1.25	12.3							
DAW-110W	0.8	19.4	110	78	2270	2"	24	2 1/2"	2550×1400×1605
	1	16.9							
	1.25	15.1							
DAW-132W	0.8	22.21	132	78	2330	2"	30	2 1/2"	2550×1400×1605
	1	20.38							
	1.25	18.29							
DAW-160W	0.8	28.85	160	78	3660	2 1/2"	35	3"	3100×1700×2090
	1	24.52							
	1.25	22.17							
DAW-200W	0.8	36.63	200	78	3690	3"	43	4"	3100×1700×2090
	1	32.7							
	1.25	27.72							
DAW-250W	0.8	42.88	250	78	3900	3"	53	4"	3100×1700×2090
	1	39							
	1.25	34.64							

Variable Speed Drive Water-lubricated Oil-free Air Compressor Technical Parameters

Model	Max. Working Pressure (Mpa)	FAD(m ³ /min)	Motor Power (KW)	Noise[dB(A)]	Weight(Kg)	Cooling Water Inlet Pipe Diameter	Cooling Water (Water 32°C) cooling water capacity	Dimensions(L*W*H)mm	Air outlet
DAWV-7A	0.8	0.45 ~ 1.15	7	58	637	3/4"	2	1550×775×1445	3/4"
	1	0.41 ~ 1.02							
DAWV-11A	0.8	0.62 ~ 1.55	11	58	657	3/4"	2.5	1550×775×1445	3/4"
	1	0.53 ~ 1.32							
	1.25	0.48 ~ 1.02							
DAWV-15A	0.8	0.96 ~ 2.4	15	63	907	1"	3.5	1900×1000×1635	1"
	1	0.85 ~ 2.12							
	1.25	0.64 ~ 1.61							
DAWV-18A	0.8	1.24 ~ 3.1	18	65	993	1"	4	1900×1000×1635	1"
	1	1.05 ~ 2.62							
	1.25	0.85 ~ 2.13							
DAWV-22A/W	0.8	1.4 ~ 3.5	22	65	1023	1"	5	1900×1000×1635	1"
	1	1.25 ~ 3.13							
	1.25	1.04 ~ 2.61							
DAWV-30A/W	0.8	2.0 ~ 5.0	30	66	1300	1 1/4"	7	1900×1050×1430	1 1/2"
	1	1.68 ~ 4.2							
	1.25	1.52 ~ 3.81							
DAWV-37A/W	0.8	2.44 ~ 6.1	37	67	1320	1 1/4"	9	1900×1050×1430	1 1/2"
	1	2.09 ~ 5.22							
	1.25	1.92 ~ 4.81							
DAWV-4A/W	0.8	2.92 ~ 7.3	45	68	1569	1 1/2"	10	2200×1350×1530	2"
	1	2.45 ~ 6.13							
	1.25	2.26 ~ 5.65							
DAWV-55A/W	0.8	3.84 ~ 9.6	55	70	1665	1 1/2"	12	2200×1350×1530	2"
	1	3.44 ~ 8.6							
	1.25	2.97 ~ 7.42							
DAWV-75A/W	0.8	5.0 ~ 12.5	75	73	1889	1 1/2"	18	2200×1350×1530	2"
	1	4.57 ~ 11.42							
	1.25	3.93 ~ 9.83							
DAWV-90A/W	0.8	6.52 ~ 16.3	90	73	2356	2"	20	2550×1400×1605	2.5"
	1	5.81 ~ 14.52							
	1.25	4.92 ~ 12.3							
DAWV-110W	0.8	7.76 ~ 19.4	110	78	2376	2"	24	2550×1400×1605	2.5"
	1	6.76 ~ 16.9							
	1.25	6.04 ~ 15.1							
DAWV-132W	0.8	8.88 ~ 22.21	132	78	2522	2"	30	2550×1400×1605	2 1/2"
	1	8.15 ~ 20.38							
	1.25	7.31 ~ 18.29							
DAWV-160W	0.8	11.54 ~ 28.85	160	78	3810	2 1/2"	35	3100×1700×2090	3"
	1	9.81 ~ 24.52							
	1.25	8.87 ~ 22.17							
DAWV-200W	0.8	14.65 ~ 36.63	200	78	3910	3"	43	3100×1700×2090	4"
	1	13.1 ~ 32.7							
	1.25	11.09 ~ 27.72							
DAWV-250W	0.8	17.15 ~ 42.88	250	78	4120	3"	53	3100×1700×2090	4"
	1	15.6 ~ 39							
	1.25	13.87 ~ 34.64							



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

Contact Us

R&D Center & Factory

Denair(Shanghai) Compressor Manufacturing Co.,Ltd.

Add: No.733 Wenbing Road, Songjiang Industry Zone, Shanghai, China

Sales Headquarters

Shanghai Denair Compressor Co.,Ltd

Add: 4th Floor, Building 5, Baosheng International

Fortune Center, No.18, Baosheng Road,

Songjiang District, Shanghai, China

Tel: (86-21) 37831829

Fax: (86-21) 60405929

Web: www.denairgroup.net

Email: export@denaircompressor.net