

► Other Product Series



ADEKOM[®]
Kompressoren



ETC Series Oil Free Rotary Screw Air Compressor
Motor Rating: 11 ~ 355kW
Capacity FAD: 1.93 ~ 56.82 m³/min



Dry Screw Oil Free Air Compressor
Motor Rating: 55 ~ 400kW
Capacity FAD: 8.8 ~ 62.1 m³/min



PET Application Oil Free High Pressure Piston Compressor
FAD: 1.9-30.5 m³/min
Working Pressure Up To: 40 bar.g



Portable Rotary Screw Air Compressor
Motor Rating: 40-390HP



Refrigerated And Desiccant Type Air Dryer
Treatment Capacity: 0.5 ~ 1000Nm³/min
PDP temp. (refrigerated type): +3°C ~ +10°C
PDP temp. (desiccant type): -20°C ~ -70°C



High Efficiency Inline Air Filter And Air / Oil Separator
(Filtration Level: 0.01µm; 0.003ppm)



**ADEKOM ROTARY SCREW
AIR COMPRESSOR
PERMANENT MAGNET
VARIABLE SPEED DRIVE
AIR COMPRESSOR**

ADEKOM[®]
Kompressoren

QR Code for Mobile Website



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COMPANY PROFILE Adekom – Your Total Air Solution

ADEKOM (ASIA PACIFIC) LIMITED founded in the late 90' s is a specialized air/gas compressors and treatment system manufacturer with headquarter in Hong Kong. QUALITY, RELIABILITY and ENERGY EFFICIENCY have been the main objectives of serving customers all over the world.

Being a ISO9001:2015, ISO14001:2015 and CE certified global supplier who is specialized in providing high performance and low operating cost compressors and treatment system for a broad range of applications, in coping with the rapid growth of China and fast developing countries, ADEKOM had established a joint venture factory named Adekom Kompresoren (Dongguan) Limited in Southern China early year 2000. This not only resulted in reducing the products delivery lead time, but also improved customer satisfaction by providing the best compressor packages in accordance with regional operating environment.

Throughout the years, ADEKOM have established business relationship with customers across all continents, such as Asian countries, Russia & CIS countries, Middle East countries, European countries, African countries and American countries.

Complete range of world class rotary screw, piston and scroll type air & gas compressors, with matching air & gas treatment system equipment, including high-pressure, oil-free and portable models are all fitted with international recognized components. Thus, this sets us apart from other manufacturers and our product quality is unrivalled in the marketplace!



10+ PATENTS HAVE BEEN AWARDED IN THE PAST FEW YEARS WHICH SHOWS THE MISSION OF INNOVATION IN ADEKOM. WE ARE COMMITTED TO DEVELOP HIGH END PRODUCTS CONTINUOUSLY TO MEET WITH WHATEVER APPLICATIONS OUR CUSTOMERS MAY HAVE.

- Five major product lines of Adekom are CE certified.
- High Quality China Supplier certificate issued by Canton Fair.
- Adekom Oil Free lines are SGS and TÜV certified for ISO8573-1 Class 0 standard.
- JV production facility in China is ISO9001 and ISO14001 certified.

QUALITY ASSURANCE





ADEKOM Rotary Screw Air Compressor **EXCELLENCE BY DESIGN**

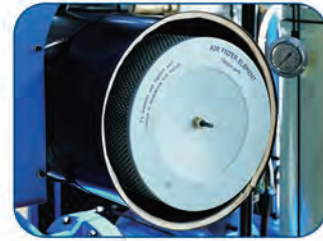
Intelligent Touch Screen Control Panel

The simple-to-use automatic electric control panel continuously monitors and displays overall system performance status with pro-active service indications, alarms for malfunctions and safety shutdowns. Advanced sequence control for multi-units installation and remote control as option.



High Efficiency Intake Filter System

Intake air pre-filter and big surface air filter element can efficiently remove dust particles from intake cooling air and at the same time to maintain low noise level. Ventilating air is ducted in via special channel, cooler ambient air to be compressed will result high air delivery due to increased volumetric efficiency.



Multi-stage air/oil separation system

The latest European patented multi-stage air/oil separation system to guarantee low residual oil content of less than 1-3 ppm. This exceeds any international standard of oil injected rotary screw air compressor and is particularly suitable for customers with clean air for applications.

High Efficiency Air Cooler System

Big capacity models adopt double cooling fan design. The first cooling fan starts up with the compressor and the second one starts up only when the operating temperature exceeds 80°C and it stops when goes back below 70°C in order to save energy.



Reliable Automatic Control Box

Electronic components of the IP55 automatic control box such as relays, contactors are from named brand - Siemens to provide safe and reliable compressor control solution. Advanced microprocessor based PLC controller is used to adjust compressor loading according to system air demand automatically. Versatile fault diagnosis and protection functions to assure stable and reliable operation of the compressor.



Modern Concept Suction Control System

Modern concept suction control valve with automatic closure to prevent any oil escape. The control unit can automatically adjust from 60-100% according to the system air demand to effectively minimize operating cost.



Energy Saving Electric Motor

T.E.F.C Highly efficient, totally enclosed fan-cooled (T.E.F.C.), IP55, class F electric motor can achieve high efficiency of 95.2% that brings an unprecedented level of energy saving. High quality high speed bearings from "SKF" are fitted for continuous trouble-free operation.



State-of-the-art Compressor Airend

Optimal Energy efficiency and outstanding reliability is achieved from patented design third generation non-symmetric robust rotors, superior bearings and oil seal that help the compressor airend to operate with good dynamic balance, low vibration, low rotation speed and low noise level.

Maintenance Free Transmission System

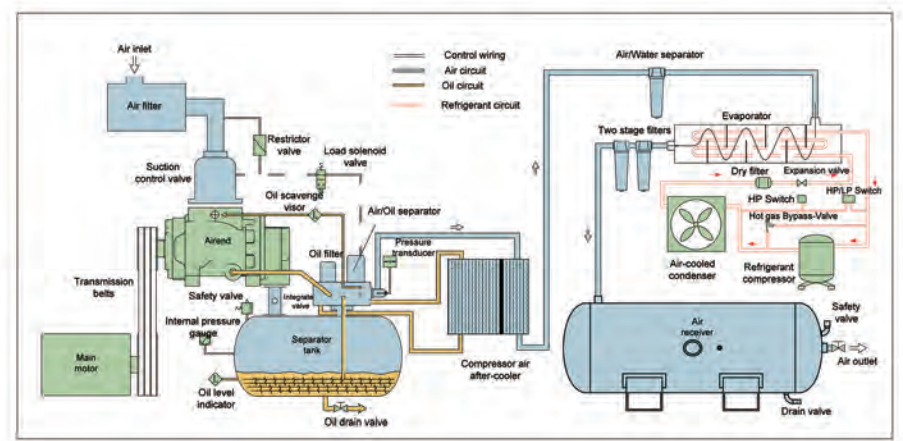
Low to medium capacity model with its motor baseplate fitted with auto-tensioning system that automatically adjusts the tension of the transmission belts; big capacity model with its motor connected directly with airend through flexible coupling. This ensures high power transmission efficiency and maintenance-free operation.





ADEKOM K-Compact Series Full Feature Rotary Screw Air Compressor Package (Floor Mounted, Tank Mounted, With Or Without Integrated Dryer)

With its compact footprint, low noise operation and integration of air and condensate treatment equipment, the K-compact series offers complete versatility for your production. The K-compact's integrated design allows the compressor to be placed on the production floor, reducing external piping costs and minimizing pressure drop across the system. This increased efficiency can create strong energy savings for your business.



- Rugged German screw airend allows for a 100% continuous duty cycle
- High efficiency, TEFC, IP55, class F electric motor for continuous trouble-free operation
- Optimally sized aftercooler guaranteeing ideal running under all conditions
- Spin-on oil separator and filter for quick maintenance
- Low noise operation, reduced piping costs and limited pressure drop
- Environmental friendly refrigerant is adopted
- Easy and low cost maintenance: long service interval on consumables, less oil capacity
- Advanced microprocessor based electronic control and automatic monitoring optimize the operation for efficiency and reliability
- Lead/lag sequential control for multi-units installation is available
- Real plug and play compressors deliver ready for use – minimizing production downtime and reducing installation costs

K-compact Series Full Feature Rotary Screw Air Compressor with Integrated Air Dryer without Horizontal Air Tank

Model		K3D	K4D	K5D	KA7D	KA11D	KB15D
Capacity FAD/Working pressure	m ³ /min /bar(g)	0.44/8	0.60/8	0.85/8	1.21/8	1.93/8	2.16/8
		0.37/10	0.51/10	0.72/10	1.06/10	1.65/10	1.93/10
		0.30/13	0.40/13	0.61/13	0.85/13	1.28/13	1.61/13
Cooling method		Air cooled					
Discharge air temp.		Ambient temp. +8~10°C					
Noise level		68±3				69±3	
Main motor	Power	3	4	5.5	7.5	11	15
	Starting method	Direct starting				Y-Δ Star-Delta starting	
	Power Supply	220V/380V/440V 50Hz/60Hz					
Dimensions	L	1240		1300		1650	
	W	650		700		800	
	H	1120		1120		1200	
Pressure dew point		3 ~ 10					
Weight		340	340	380	400	460	480
Discharge air pipe		3/4"		3/4"		1"	

K-compact Series Full Feature Rotary Screw Air Compressor with Integrated Air Dryer and Horizontal Air Tank

Model		K3D/250	K4D/250	K5D/250	KA7D/250	KA11D/500	KB15D/500
Capacity FAD/Working pressure	m ³ /min /bar(g)	0.44/8	0.60/8	0.85/8	1.21/8	1.93/8	2.16/8
		0.37/10	0.51/10	0.72/10	1.06/10	1.65/10	1.93/10
		0.30/13	0.40/13	0.61/13	0.85/13	1.28/13	1.61/13
Cooling method		Air cooled					
Discharge air temp.		Ambient temp. +8 ~ 10°C					
Noise level		68 ± 3				69 ± 3	
Main motor	Power	3	4	5.5	7.5	11	15
	Starting method	Direct starting				Y-Δ Star-Delta starting	
	Power Supply	220V/380V/440V 50Hz/60Hz					
Dimensions	L	1640		1640		2090	
	W	650		700		800	
	H	1580		1620		1820	
Pressure dew point		3 ~ 10					
Air tank volume		250				500	
Weight		500	500	550	570	660	680
Discharge air pipe		1"		1"		1"	

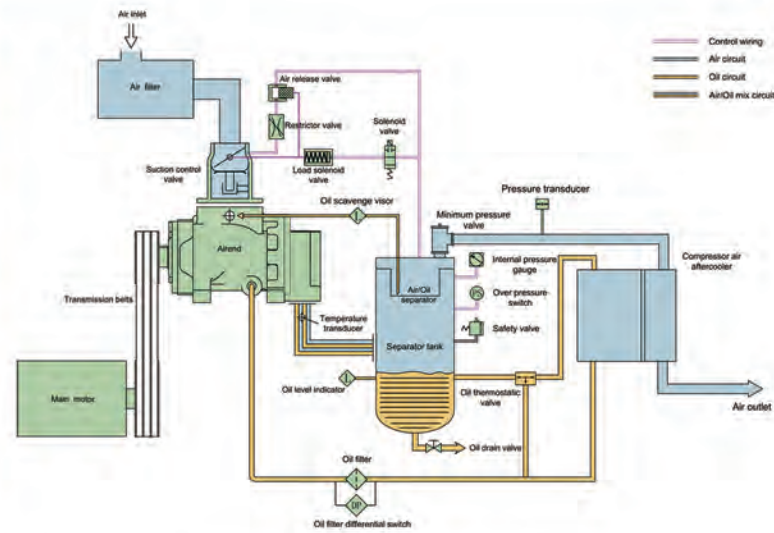
For 11 - 15kW models, integrated inline filters can be chosen as option.

K-compact Series Full Feature Rotary Screw Air Compressor with Horizontal Air Tank without Integrated Air Dryer

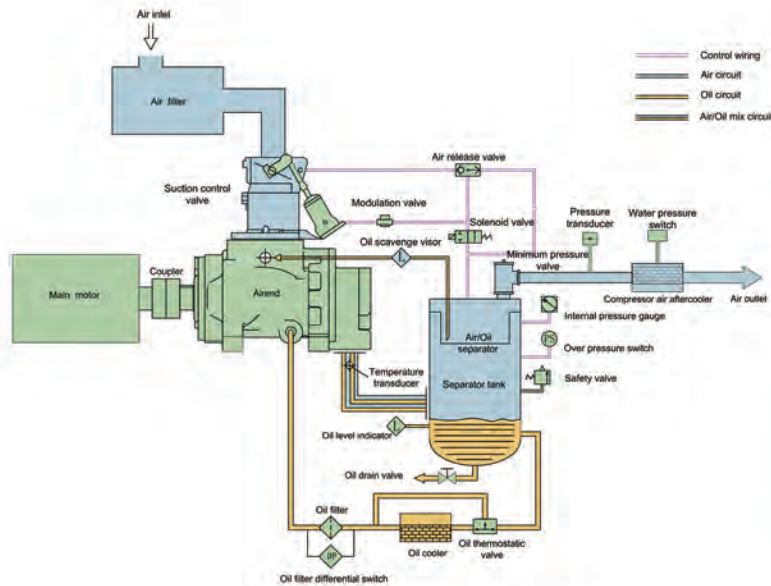
Model		K3/250	K4/250	K5/250	KA7/250	KA11/500	KA15/500
Capacity FAD/Working pressure	m ³ /min /bar(g)	0.44/8	0.60/8	0.85/8	1.21/8	1.93/8	2.16/8
		0.37/10	0.51/10	0.72/10	1.06/10	1.65/10	1.93/10
		0.30/13	0.40/13	0.61/13	0.85/13	1.28/13	1.61/13
Cooling method		Air cooled					
Discharge air temp.		Ambient temp. +8 ~ 10°C					
Noise level		68 ± 3				69 ± 3	
Main motor	Power	3	4	5.5	7.5	11	15
	Starting method	Direct starting				Y-Δ reduction voltage starting	
	Power Supply	220V/380V/440V 50Hz/60Hz					
Dimensions	L	1640		1640		2090	
	W	650		700		800	
	H	1580		1650		1820	
Air tank volume		250				500	
Weight		420	420	460	480	600	620
Discharge air pipe		1"		1"		1"	



ADEKOM Rotary Screw Air Compressor KA - KG Series Models



V-belt driven transmission



Direct coupled transmission

Different models may have slightly different working principle, please consult manufacturer or your local sales agent for further inquiry.

KA - KD Series (Small to Medium Capacity Models)

Model	K3	K4	K5	KA7	KA11	KB15	KB18	KB22	KC30	KC37	KC45	KD55												
Capacity FAD/Working pressure	m ³ /min /bar(g)		0.44/8	0.60/8	0.85/8	1.21/8	1.93/8	2.16/8	3.19/8	3.62/8	5.20/8	6.42/8	7.62/8	10.10/8										
			0.37/10	0.51/10	0.72/10	1.06/10	1.65/10	1.93/10	2.88/10	3.25/10	4.80/10	5.69/10	6.71/10	8.70/10										
			0.30/13	0.40/13	0.61/13	0.85/13	1.28/13	1.61/13	2.42/13	2.93/13	4.05/13	4.69/13	5.54/13	7.45/13										
Cooling method	Air cooled											Air-cooled and water-cooled available												
Discharge air temp	C												Air-cooled version: Ambient temp. +8~15°C / Water-cooled: ≤40°C											
Lubricant oil capacity	L												8	10	12	13	18	20	48					
Noise level	dB(A)												68 ± 3			69 ± 3			71 ± 3			72 ± 3		
Main motor	Power	kW			3	4	5.5	7.5	11	15	18.5	22	30	37	45	55								
	Speed	rpm			2870	2860	2890		2925	2930		2950			2960		2965							
	Starting method	Y-Δ Star-Delta/DOL Starting																						
Power supply	220V/380V/440V 50Hz/60Hz																							
Dimensions	L	mm			830			830	960	1350			1570(1270)			1850(1520)								
	W	mm			820			880	850	900			1000(810)			1250(870)								
	H	mm			1130			1150	1230	1320			1570(1190)			1650(1310)								
Weight	kg			240	240	260	280	410	430	450	550	750	990	1200	1510(1310)									
Discharge air pipe connection	Inch/mm			1/2"			3/4"			1"			1 1/4"(1 1/2")			2"(1 1/2")								

KD - KG Series (Big Capacity Models)

Model	KD75	KE90	KE110	KE132	KF160	KF185	KF220	KF250	KG315	KG355									
Capacity FAD/Working pressure	m ³ /min /bar(g)		12.96/8	16.20/8	20.48/8	23.50/8	27.80/8	31.00/8	37.77/8	43.95/8	56.82/8	61.94/8							
			11.39/10	14.00/10	17.50/10	21.00/10	25.00/10	28.10/10	33.77/10	38.50/10	51.34/10	56.65/10							
			10.20/13	12.10/13	14.85/13	18.38/13	21.50/13	25.00/13	29.98/13	33.00/13	45.62/13	48.36/13							
Cooling method	Air-cooled and water-cooled available																		
Discharge air temp	C										Air-cooled version: Ambient temp. +8~15°C / Water-cooled: ≤40°C								
Lubricant oil capacity	L										56	65	80	160	200	250			
Noise level	dB (A)										75 ± 3			78 ± 3			82 ± 3		
Main motor	Power	kW			75	90	110	132	160	185	220	250	315	355					
	Speed	rpm			2975	2965	1485/2975			1490/2985			1495						
Starting method	Y-Δ Star-Delta/DOL Starting					Y-Δ Star-Delta/DOL/Direct Starting													
Power supply	220V/380V/440V 50Hz/60Hz										380V/3KV/6KV/10KV 50Hz								
Dimensions	L	mm			2100	2490(2200)	2490(2580)		2790(2800)		3590(3350)		5000(4050)						
	W	mm			1300(1150)	1460(1300)	1610(1450)		1760(1750)		2060(2000)		2200						
	H	mm			1600(1700)	1950(1750)			2050(1850)		2300(2000)		2350						
Weight	kg			1980(1880)	2450(2350)	2600(2500)	2800(2700)	3800(3600)	4050(3900)	4850(4700)	5050(4900)	8000(7750)	8200(7935)						
Discharge air pipe connection	Inch/mm			2"			DN80			DN80		DN100		DN125					
Cooling water pipe connection	Inch			1"			DN40			DN50		DN65							

(1) Unit performance measured according to ISO 1217, Ed. 3, Annex C-1996.

(2) Noise level measured according to Pneurop / Cagi PN8NTC 2.2 test code; tolerance ± 3dB(A).

(3) Data inside brackets is for water-cooled models.

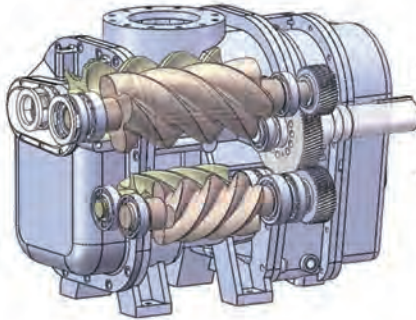
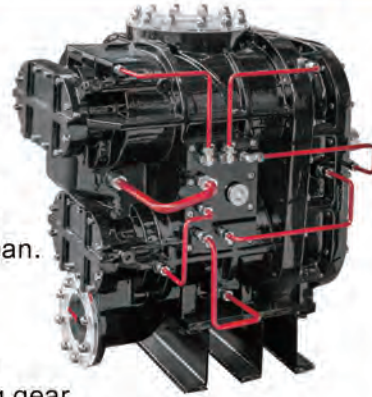
Note: Adekom reserves the right to make changes without prior notice. For further information, please contact the manufacturer or your local sales agent.



ADEKOM 2-Stage Oil-injected Rotary Screw Compressors For Supreme Energy Efficiency

Innovative two stage airend design:

1. Two stage airend incorporates two separate screw compression elements in upper and lower position to realize compact and robust in design.
2. High precision "SKF" double tapered roller bearings on face-to-face arrangement are mounted at airend discharge end. 15 pieces of this quality bearings are fitted on each of this two stage airend to guarantee reliability in performance and long life span.



3. Optimal tip speed for first and second stage screw compression elements is achieved by built in timing gear set for best volumetric efficiency.
4. Big diameter rotors are adopted in design to maintain low shaft rotation speed of 1480 rpm, resulted in good dynamic balance, low vibration and low noise level.

Advantages of two stage compression

1. Low energy consumption

- Air discharged from first stage compression is cooled down drastically by forced oil mist spraying cooling before entering second stage compression that significantly reduces second stage inlet temperature. Air passing through this process seems undergoing isothermal compression, adiabatic efficiency is thus improved and energy consumption during compression is reduced.
- Two stage screw compression technology adopts isobaric ratio principle to design inter-stage pressure values, compression ratio for each stage and internal leakage are reduced, adversely volumetric efficiency is enhanced and in return improves compressor air delivery.
- Inter-stage cooler and associated pipework are saved due to special designed oil mist spraying cooling between compression stages that also reduces pressure loss and energy consumption.



Obviously, two stage compression is more energy efficient than single stage compressor! With the same air capacity and discharge pressure, two stage compression can achieve 15% energy saving than single stage compression. Similarly, under the same power consumption and discharge pressure, two stage compression can produce 15% more in air capacity than single stage compression!

2. Less maintenance costs

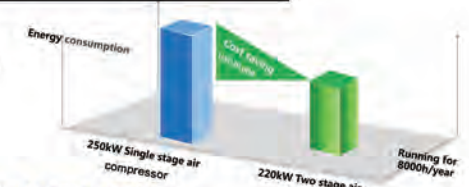
- The compression ratio of each stage is reduced by using two stage compression technology, axial and radial forces exerted on rotors are greatly relieved, which improve the service life of the rotors and bearings dramatically.
- Special designed oil mist spraying cooling between stages avoid unnecessary parts (e.g. intercooler and piping) and reduces associated maintenance cost.

Sample calculation of energy saving:

Performance comparison between two stage compression unit and single stage compression unit

Compression Stage	Power rating, kW	Air capacity, m ³ /min	Discharge pressure, bar(g)
Two Stage	220	45.5	8
Single Stage	250	43.95	8

- For example, a 250kW single stage compression screw compressor delivers air at 100% loading and operates 8000 hours per year will have energy consumption of USD 300,000 per year (taking electricity cost of USD 0.15/kWh).
- A two stage compression 220kW screw compressor can save 10% energy consumption, electricity bill can thus reduce by USD 30,000 per year!



Two - stage compression - energy - saving series screw compressor technical parameters

Model	Nominal power (kW)	Working Pressure (bar)	Capacity FAD (m ³ /min)	Discharge air pipe connection	Weight (Kg)	Dimensions (L x W x Hmm)
KD75-7II	75	7	15.80	G2"	2300	2200×1300×1600
KD75-8II		8	15.60			
KD75-10II		10	12.70			
KD75-13II		13	10.00			
KE90-7II	90	7	20.80	DN80	2950	2700×1610×2050 (2700×1610×1950)
KE90-8II		8	20.00			
KE90-10II		10	15.80			
KE90-13II		13	12.50			
KE110-7II	110	7	24.50	DN80	3350	2700×1610×2050 (2700×1610×1950)
KE110-8II		8	23.80			
KE110-10II		10	19.80			
KE110-13II		13	16.00			
KE132-7II	132	7	29.00	DN80	3550	2700×1610×2050 (2700×1610×1950)
KE132-8II		8	28.20			
KE132-10II		10	24.00			
KE132-13II		13	19.50			
KF160-7II	160	7	34.00	DN80	3900	2800×1760×2050 (2800×1760×1950)
KF160-8II		8	32.80			
KF160-10II		10	28.20			
KF160-13II		13	23.50			
KF185-7II	185	7	41.00	DN100	4050	3000×1860×2050 (3000×1860×1950)
KF185-8II		8	40.50			
KF185-10II		10	32.80			
KF185-13II		13	27.50			
KF200-7II	200	7	43.80	DN100	5850	4050×2060×2300 (3400×2060×2000)
KF200-8II		8	41.00			
KF200-10II		10	38.50			
KF200-13II		13	33.00			
KF220-7II	220	7	46.80	DN100	6150	4050×2060×2300 (3400×2060×2000)
KF220-8II		8	45.50			
KF220-10II		10	41.50			
KF220-13II		13	38.00			
KF250-7II	250	7	52.00	DN100	6650	4050×2060×2300 (3400×2060×2000)
KF250-8II		8	51.50			
KF250-10II		10	46.50			
KF250-13II		13	40.00			
KG280-7II	280	7	61.00	DN125	7250	4050×2060×2300 (3400×2060×2000)
KG280-8II		8	57.00			
KG280-10II		10	51.00			
KG280-13II		13	43.50			
KG315-7II	315	7	67.00	DN125	7850	4350×2060×2300 (3800×2060×2000)
KG315-8II		8	66.00			
KG315-10II		10	60.50			
KG315-13II		13	51.50			

Remarks:

1. Capacity FAD measured according to ISO1217,Ed.3,Annex C-1996.
2. Data inside brackets is for water-cooled models.
3. All series models match with soft starter or transducer available; Optional 3KV/6KV/10KV main power supply can be configured for air compressor with which power 185kW above. 380v control power. For further technical parameters information, please contact the manufacturer or your local sales agent.

▶ Low Pressure Series Rotary Screw Air Compressor

Designed especially to deliver 3–5 bar with maximum energy efficiency, ADEKOM Low Pressure series is an innovative rotary screw compressor perfectly suited for low-pressure applications such as textiles industry, cement industry, glass blowing industry, water treatment industry, building materials and chemical industry.

Saving 20–50% Energy Consumption

Nowadays, most of the customers are operating 7–8 bar compressors with pressure reducing valve at discharge when only 3–5 bar system air pressure is needed, this causes huge energy wastage. By choosing Adekom's Low Pressure series rotary screw air compressor, you can expect exact working pressure of air you need but produce much higher air capacity at the same motor rating which equivalent to saving of 20–50% electricity cost. This big saving can shorten the investment payback period to as quick as one year and it continues to pay you back with every hour of installation!



Product Features:

Big diameter rotors with low rotation speed can achieve higher efficiency, lower noise level, less vibration and consume less power.

Specially designed inlet air filter that prevents dirt and airborne contaminants from reaching compressor components and causing damage or premature wear.

Large dimensions high efficiency oil separation system to ensure oil carryover in discharge compressed air less than 3 ppm.

Model	Nominal power (kW)	Working Pressure (bar)	Capacity FAD (m ³ /min)	Discharge air pipe connection	Dimensions (L × W × H,mm)
KB15L-3	15	3	3.77	DN40	1400 × 1000 × 1500
KB18L-3	18.5	3	4.8	DN50	1650 × 1100 × 1650
KB22L-3	22	3	5.5	DN50	1650 × 960 × 1650
KC30L-3	30	3	7.8	DN65	1850 × 1300 × 1850
KC37L-3	37	3	10.0	DN65	1850 × 1300 × 1850
KC45L-3	45	3	13.0	DN80	2200 × 1350 × 1850
KD55L-3	55	3	16.0	DN100	2790 × 1800 × 2050
KD75L-3	75	3	20.5	DN100	2790 × 1800 × 2050
KE90L-3	90	3	28.0	DN125	3590 × 2060 × 2300
KE110L-3	110	3	32.0	DN150	3590 × 2060 × 2300
KE132L-3	132	3	41.0	DN150	4050 × 2060 × 2300
KF160L-3	160	3	44.0	DN150	4050 × 2060 × 2300
KF185L-3	185	3	49.5	DN150	4250 × 2060 × 2300
KF200L-3	200	3	55.5	DN200	4250 × 2060 × 2300
KF220L-3	220	3	60.5	DN200	4550 × 2060 × 2300
KF250L-3	250	3	65.5	DN200	4550 × 2060 × 2300

Model	Nominal power (kW)	Working Pressure (bar)	Capacity FAD (m ³ /min)	Discharge air pipe connection	Dimensions (L × W × H,mm)
KB22L-4	22	4	5.2	DN40	11450 × 960 × 1350
KC30L-4	30	4	7.2	DN50	1850 × 1300 × 1650
KC37L-4	37	4	9.0	DN50	1850 × 1300 × 1650
KC45L-4	45	4	10.5	DN65	1850 × 1300 × 1650
KD55L-4	55	4	13.5	DN65	2100 × 1350 × 1650
KD75L-4	75	4	19.5	DN80	2100 × 1350 × 1650
KE90L-4	90	4	23.5	DN80	2790 × 1800 × 2050
KE110L-4	110	4	28.0	DN100	2790 × 1800 × 2050
KE132L-4	132	4	32.0	DN100	2790 × 1800 × 2050
KF160L-4	160	4	41.0	DN125	3590 × 2060 × 2300
KF185L-4	185	4	44.0	DN125	3590 × 2060 × 2300

Remarks:

1. Different voltage and frequency power supply models other than 380V/3ph/50Hz are available upon request.
2. Water-cooled models are available as option, please consult manufacturer or your local sales agent for related technical parameters.
3. Unit performance measured according to ISO1217 (GB/T3853) test code under unit loading.

Model	Nominal power (kW)	Working Pressure (bar)	Capacity FAD (m ³ /min)	Discharge air pipe connection	Dimensions (L × W × H,mm)
KB22L-5	22	5	4.5	DN32	1450 × 960 × 1350
KC30L-5	30	5	6.5	DN40	1850 × 1300 × 1650
KC37L-5	37	5	7.5	DN40	1850 × 1300 × 1650
KC45L-5	45	5	9.8	DN50	1850 × 1300 × 1650
KD55L-5	55	5	13.0	DN65	2100 × 1350 × 1650
KD75L-5	75	5	16.5	DN65	2100 × 1350 × 1650
KE90L-5	90	5	20.0	DN80	2790 × 1800 × 2050
KE110L-5	110	5	23.5	DN80	2790 × 1800 × 2050
KE132L-5	132	5	31.0	DN100	2790 × 1800 × 2050
KF160L-5	160	5	34.0	DN100	2790 × 1800 × 2050
KF185L-5	185	5	41.0	DN125	3590 × 2060 × 2300
KF200L-5	200	5	44.0	DN125	3590 × 2060 × 2300
KF220L-5	220	5	50.0	DN125	4050 × 2060 × 2300
KF250L-5	250	5	55.0	DN125	4050 × 2060 × 2300

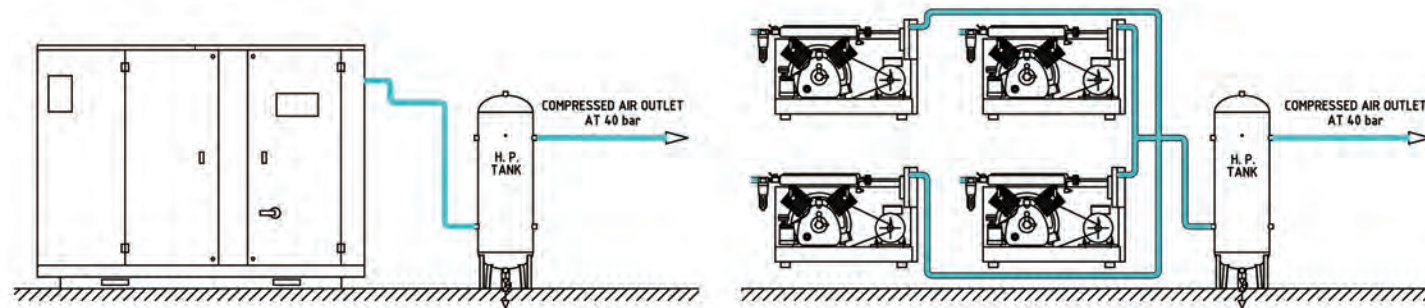
Remarks:

1. Different voltage and frequency power supply models other than 380V/3ph/50Hz are available upon request.
2. Water-cooled models are available as option, please consult manufacturer or your local sales agent for related technical parameters.
3. Unit performance measured according to ISO1217 (GB/T3853) test code under unit loading.

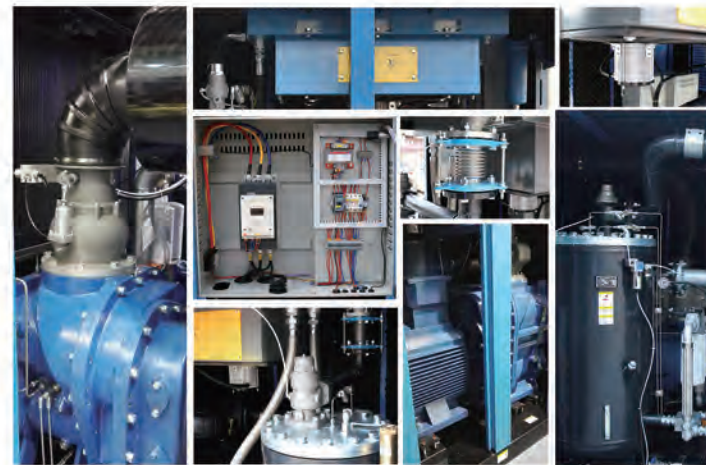


KHP Series 2-stage High-Pressure Oil-injected Rotary Screw Air Compressors

KHP Series 2-stage Oil-injected rotary screw air compressors provide a reliable air supply of up to 25 bar for high-pressure applications in the toughest working conditions, for example Bottle blowing (PET), Pharmaceutical industry, Food industry, Rubber tire manufacturing, Hydropower, Well drilling, Military, Biological and Chemical industry and many more applications.



ADVANTAGES OF THE TWO STAGE SCREW SYSTEM



- High reliability (heavy duty)
- More economic maintenance
- Energy saving (with inverter)
- Low noise level
- Low vibration level
- Easy installation
- Big operational saving in comparison to all other systems

Technical Data of KHP Series 2-stage High-Pressure Oil-injected Screw Compressors

Model	Nominal power (kw)	Working Pressure (bar)	Capacity FAD (m³/min)	Discharge air pipe connection	Intake water pipe connection	Weight (kg)	Dimensions (L x W x H,mm)
KHP110-18	110	18	9.98	DN40	DN40	2920(2820)	2750 x 1610 x 1950 (2750 x 1550 x 1850)
KHP110-20		20	9.88				
KHP110-25		25	9.64				
KHP132-18	132	18	13.87	DN40	DN40	3400(3300)	3100 x 1760 x 2100 (3100 x 1550 x 1850)
KHP132-20		20	13.66				
KHP132-25		25	11.35				
KHP160-18	160	18	17.29	DN40	DN50	4400(4200)	3100 x 1760 x 2100 (3100 x 1550 x 1850)
KHP160-20		20	17.12				
KHP160-25		25	13.99				
KHP185-18	185	18	20.55	DN40	DN50	4500(4300)	3100 x 1760 x 2100 (3100 x 1550 x 1850)
KHP185-20		20	20.35				
KHP185-25		25	16.78				
KHP200-18	200	18	21.56	DN40	DN50	5000(4800)	3950 x 2060 x 2300 (3300 x 2000 x 2000)
KHP200-20		20	21.35				
KHP200-25		25	17.32				
KHP220-18	220	18	24.92	DN50	DN65	5300(5100)	3950 x 2060 x 2300 (3300 x 2000 x 2000)
KHP220-20		20	24.67				
KHP220-25		25	20.92				
KHP250-18	250	18	28.27	DN50	DN65	5500(5300)	3950 x 2060 x 2300 (3300 x 2000 x 2000)
KHP250-20		20	27.99				
KHP250-25		25	24.18				

Remarks:

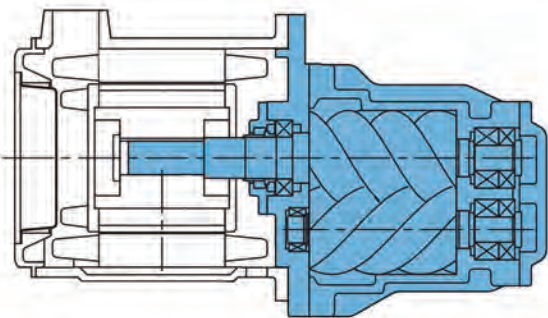
1. Unit performance measured according to ISO1217, Ed.3, Annex C-1996.
2. Data inside brackets is for water-cooled models.
3. Full series models can match with soft starter or frequency inverter as option;
4. Upon request, 3kV/6kV/10kV high tension voltage power supply is available for 200kW+ models, 380V as control power.
5. Adekom reserves the right to make changes without prior notice.
For further information, please contact the manufacturer or your local sales agent.

Energy Saving VSD Screw Compressor with Oil-cooled Permanent Magnet Motor

Comparative Advantages

- VSD compressor precisely follows the varying air demand by adjusting motor rotation speed, this prevents unnecessary full load high current operation and energy consumed during unload operation.
- By adopting High Efficiency oil-cooled Permanent Magnet motor, this IPM VSD compressor is having 6-7% more energy efficient than standard VSD screw compressor available in the market.
- Especially under low loading operation, IPM motor plays a significant role of superior energy saving effect.
- The oil-cooled permanent magnet motor is designed with double-layer housing with lubrication oil circulating for internal cooling. Low temperature operation of motor can be ensured in full frequency range, preventing the system from demagnetizing at high temperature and greatly reducing the motor power consumption to achieve real energy saving.
- Thanks to the high efficiency IPM motor under wide operating range, customers can save 35% on energy costs comparing with fix speed compressors.
- Oil-cooled permanent magnet motor is designed according to IP65 protection standard, this good waterproof and dustproof insulation, effectively improve services life of the motor.

One Common Shaft Structure



- Interior Permanent Magnet (IPM) motor is designed to be direct-couple connected with compressor air end male rotor internally with one common shaft structure to guarantee 100% transmission efficiency without any loss.
- No gears, belts or couplings that cause transmission loss.
- No motor bearings that subject to fail.
- Robust air end rotors with optimal efficiency, low vibration, low rotation speed and low noise level.

High Efficiency Oil-cooled Permanent Magnet Motor

- IPM motor constructed with neodymium iron boron permanent magnet materials can prevent demagnetized even under high operating temperature up to 180°C. Services life is up to 15 years!
- Halo-resistance enameled cable with remarkable insulation performance is applied to stator coil for long service life.
- One common shaft structure design, motor without bearing structure to guarantee 100% transmission efficiency.
- No more greasing and replacement of bearings at regular interval.
- High temperature protection via PTC/PT100 is available.
- Wide adjustable speed range and high precision which lead to wider range of air capacity modulation.
- Compact size motor saves compressor foot print.
- Double layer housing with oil circulation that reduces noise level and realizes low vibration and stable operation.
- Very high efficiency: IE4 and IP65 protection class as options.



Permanent Magnet Motor Duty Frequency Inverter

- DC reactor is equipped to suppress harmonics and improve the power factor of the input grid.
- Peak current during start-up is minimized to achieve soft starting stably.
- Saving the cost of power supply equipment.
- Special ventilation design to avoid the risk of high temperature tripping during hot climate.
- Filtration mat is fitted as standard with surface coating treatment on circuit board to realize dust and dirt resistance and anti-moisture effect.
- Follow CAN standard protocol and strictly comply with cable specification for hardware, good anti-noise interference capability.
- Fast-tracking on pressure changes, pressure fluctuation is controlled within $\pm 0.01\text{Mpa}$, to match precisely with the system air demand by outputting the optimal frequency/speed.



Oil-cooled permanent-magnet air compressor saves USD20,000 / year in electricity cost compared to standard VSD compressor

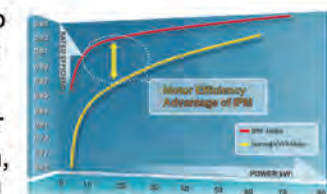
1. The application of oil-cooled permanent magnet motor on 75kW VSD compressor, efficiency on average is increased by 7%, saving electricity costs USD 3,850 / year

Equipped with high efficiency oil-cooled permanent magnet motor, compared with standard VSD motor, energy saving performance is more outstanding. The 75kW full load efficiency is 96.5%; while, the equivalent standard VSD motor efficiency is only 92.8%, and this alone can save 3.7%. When the speed is lower, the efficiency of the permanent magnet motor is 96.2%; while, the efficiency of the standard VSD motor is 89.6%, the average energy saving can be 7%. 75kW refers to the shaft power, actual input power is 84kW, based on 6000 hours per year, the loading rate of 70%, electricity saving: $6000\text{H} \times 70\% \times 84\text{kW} \times 7\% = 24,696 \text{ kWh} / \text{year}$, that is, saving $24,696 \times \text{USD } 0.155 = \text{USD } 3,850$.

2. The application of inverter controlled technology - 38kW no-load energy consumption is saved, saving electricity costs USD 11,000 / year!

For a 75kW air compressor, the loading rate of 70%, which means 30% of time is running at no load, and 38kW of energy consumption is wasted. With 6000 hours of annual operation, 1800 hours is wasted with 38kW.

75kW refers to the shaft power, actual input power is 84kW, based on 6000 hours per year, annual power consumption in full load state is 504,000kWh, but in actual operation, the no-load rate is 30%, the no-load power consumption is 38kW, which is wasted Electricity fee: $6000\text{h} \times 30\% \times 38\text{kW} = 68400 \text{ kWh}$. Obviously, KD75EPM can save 68,400 kWh / year, that is, saving $68,400 \times \text{USD } 0.155 = \text{USD } 10,600$.



35% Cost savings

3. There is no pressure fluctuation loss-reduce pressure energy consumption and save electricity cost USD 5,500 / year!

Working pressure 8bar of standard base load compressor is actually having unload pressure of 8bar, and loading pressure 6.5bar, indicating that 6.5bar is enough for production requirement.

KD75EPM can adjust the pressure to 6.5bar, thus saving USD 5,500 / year in electricity costs! Every 1 barg of system pressure reduction can save 7% of system energy consumption.

75kW refers to the shaft power, actual input power is 84kW, based on 6000 hours per year, saving electricity costs: $6000\text{H} \times 70\% \times 84\text{kW} \times 10\% = 35,280 \text{ kWh} / \text{year}$, that is, saving electricity costs $35,280 \times \text{USD } 0.155 = \text{USD } 5,500$

* No-load electricity saving is ultimately determined by the customer's site condition and air consumption.



Technical Data of EPM Series Permanent Magnet VSD Screw Compressor

Model		K7.5EPM	KA11EPM	KB15EPM	KB18EPM	KB22EPM	KC30EPM	KC37EPM	KC45EPM	KD55EPM	KD75EPM
Discharge capacity/ Discharge pressure	m ³ /min /bar(g)	1.21/8	1.93/8	2.29/8	3.19/8	3.62/8	5.20/8	6.42/8	7.62/8	10.10/8	12.96/8
		1.06/10	1.65/10	1.93/10	2.88/10	3.25/10	4.80/10	5.69/10	6.71/10	8.70/10	11.39/10
		0.85/13	1.28/13	1.61/13	2.42/13	2.93/13	4.05/13	4.69/13	5.54/13	7.45/13	10.20/13
Cooling method		Air-cooled									
Discharge temperature		≤ ambient temperature +10°C (Air-cooled)									
Noise level		65±3			68±3			70±3		72±3	
Transmission method		Direct coupled driven									
Power supply		220V/380V/415V/440V 50Hz/60Hz									
Power		7.5	11	15	18.5	22	30	37	45	55	75
Starting method		Stepless soft starting by inverter									
Dimensions	L	700		800		1200		1350		1800	
	W	800		900		900		1000		1300	
	H	980		1200		1270		1400		1700	
Weight		220	280	300	430	450	580	600	830	1200	1400
Discharge pipe connections		1/2"		3/4"		1"		1 1/4"		2"	

1. Unit performance measured according to ISO 1217, Ed.3, Annex C-1996.

2. Noise level measured according to Pneuop / Cagi PN8NTC 2.2 test code; tolerance ± 3dB(A).

Note: Adekom reserves the right to make changes without prior notice. For further information, please contact the manufacturer or your local sales agent.

Model		KE90EPM	KE110EPM	KE132EPM	KE160EPM	KE185EPM	KE220EPM	KE250EPM	KE315EPM	KE355EPM
Discharge capacity/ Discharge pressure	m ³ /min /bar(g)	16.20/8	20.48/8	23.50/8	27.80/8	31.00/8	37.77/8	43.95/8	56.82/8	61.94/8
		14.00/10	17.50/10	21.00/10	25.00/10	28.10/10	33.77/10	38.50/10	51.34/10	56.65/10
		12.10/13	14.85/13	18.38/13	21.50/13	25.00/13	29.98/13	33.00/13	45.62/13	48.36/13
Cooling method		Air-cooled / Water-cooled								
Discharge temperature		Air-cooled: ambient temperature +8~15°C / Water-cooled: ≤40°C								
Noise level		72±3			75±3			78±3		
Transmission		Direct coupled driven								
Main motor	Power	90	110	132	160	185	220	250	315	355
	Starting method	Permanent magnet synchronization								
	Power supply	200~240V 380~480V 0~60Hz								
Dimensions	L	2490			2790(2950)		3700(3450)		4050	
	W	1460	1610		1760(1800)		2060(2000)		2200	
	H	1950(1750)			2050(1900)		2300(2000)		2350	
Weight		2600(2500)	2800(2700)	3100(3000)	3690(3500)	3790(3590)	5200(5000)	5350(5100)	8100	8350
Discharge pipe connections		DN80			DN80		DN100		DN125	
Cooling Water pipe connections		DN40			DN50		DN65			

Note: Data inside brackets is for water-cooled models.

Intelligent Control System for oil-cooled permanent magnet VSD screw compressor

First in its class intelligent display system allows you to see your energy saving. Real-time pressure, temperature, power curve detection, multiple protection design, fault self-diagnosis, fault information text prompt, one-click Chinese and English switching, choice of three (3) pressure value units (Mpa / Bar / Psi). Intelligent auto standby and auto sleep awaking function is available. Target pressure can be set for precise pressure control. Reserve of adequate dry contacts for air dryer on/off control and pre-heating function.



Advanced Automation Management Function

Advanced automation management function is available to start/stop the compressor according to pre-set schedules to meet with production requirement in a day and week to achieve real 24 hours unattended operation.



Main Features of ADEKOM Central Controller

- Real-time display;
- Number of multi-units (1-8; settable);
- Loading/Unloading pressure of multi-units control (settable);
- Delay time of multi-units control (settable);
- When opening multi-units control system, startup delay time is settable;
- Single-unit operation and multi-units operation (optional);
- Avoid unauthorized users to change the parameters;
- Automatically balance the total running time of each compressor;
- Communication can automatically resume after being interrupted;
- Touch screen can display compressors operating data locally or remotely on user's BMS via RS485 protocol;
- Compressors operation can be controlled by accepting demands from central controller.

