Screw Air Compressor
Industrial Technologies

kimair.

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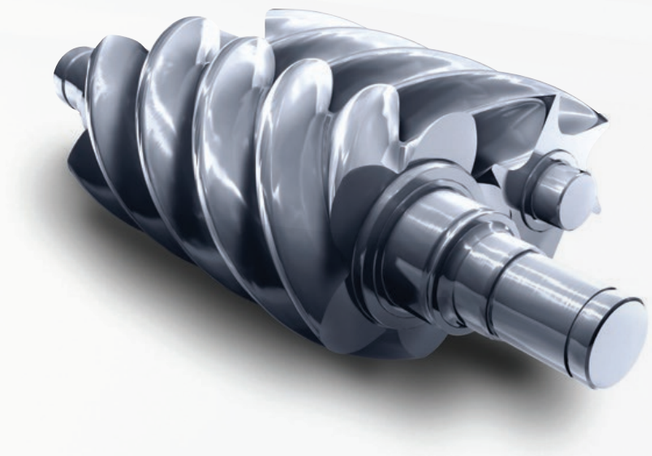
According to the different air demand kimair innovative design of the seven type screw compressor for your production can bring a comprehensive guarantee.



Everything we do, we chase for breakthroughs. We believe in thinking differently. We continuously challenge the status, to improve our products in stabilization, energy-saving, noiseless and easier maintenance. All we achieved is excellent compressor units.

High efficiiency
The Kimair screw air compressor is equipped with an energy efficient IE4 class PM motor to achieve high energy efficiency even in high-speed and low-speed operation.

High reliability
Rotor is designed with the latest screw profile patented, finishing-milled with many operations, with very high accuracy, to increase the reliability of main compressor.

Low noise
K-series are designed with sealed enclosure to ensure quiet operation, environmental protection and effective protection of human body.

Compact design
Compact design allows for easy maintenance. K- series of products are of compact design, easy installation, good to space reduced and costs saving.

SI: *Single Stage Screw Air Compressor (Fixed Speed)*

PS : *Single Stage PM Motor Screw Air Compressor*

PE : *Two Stage PM Motor Screw Air Compressor*

PLS : *Low Pressure Single Stage PM Motor Screw Air Compressor*

PLE : *Low Pressure Two Stage PM Motor Screw Air Compressor*

PHE: *Medium Pressure PM Motor Screw Air Compressor*

SFPS: *Water Lubricating Oil Free PM Motor Single Screw Air Compressor*

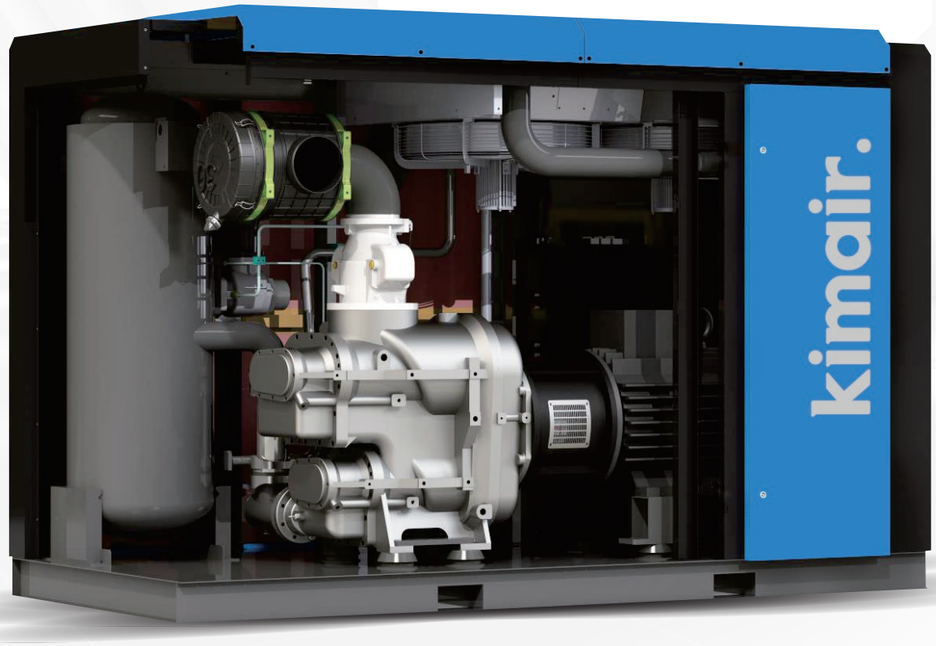
Two Stage PM Motor Screw Air Compressor

Keeping your production up and running

kimair. compressors ensure long and trouble-free lifetime at the lowest operating cost.

Reducing your production costs

The innovative design of kimair compressors reduces your energy bill and overall compressor lifecycle costs.



Two stage Air Compressor

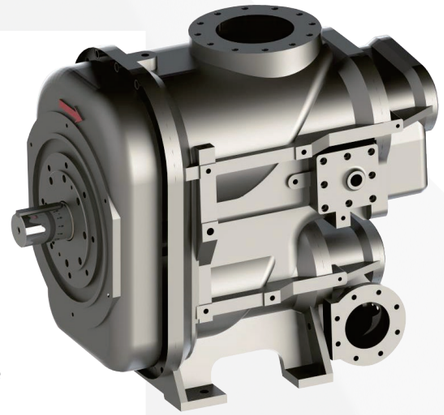
The bearing load is greatly reduced.Improved Air-end longevity.

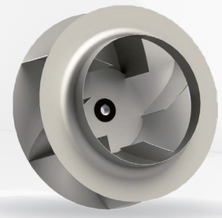
Reduced maintenance.

2-stage air compressor can set the pressure ratio of three to one between first and second stage so that it can reduce internal leakage, and each pressure ratio of the 2-stage air-end is much lower than that of single stage air-end. So it improves pressure efficiency significantly.

After compression of air in the first stage, the air is cooled down by intensified oil injection cooling which reduces the intake air temperature of the second stage. As the results, the process of air compression is done by isothermal compression which can reduce energy consumption.

Through the optimization of volumetric efficiency and adiabatic efficiency, 2-stage air compressor can be obtained 15% more air volume compare to the same power of single stage air compressor.





Powerful radial fan(Optional)

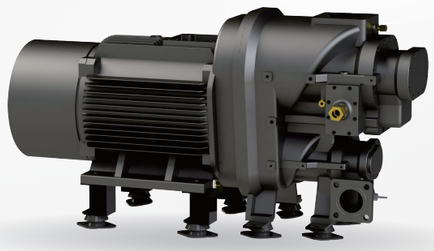
The quiet and powerful fan draws in cool ambient air through the cooler.
Its high residual thrust can deal with partial clogging of the cooler and still have enough reserve to allow connection of a long exhaust duct.
In addition, the radial fan consumes significantly less drive power than conventional axial fans,saving even more energy.

High tech oil/air separator tank

Replacing oil/air separator cartridge does not require removing any pipe.
3-step efficient oil separation process for low residual oil content in the compressed air (less than 3ppm).

Directly coupled transmission

Integrated flexible coupling set ensures easy maintenance.



Energy Saving Intake Valve

This intake valve is featuring high efficiency and vast range control.
It can save energy through free control of loading and save maintenance cost through built-in design.

Single Stage PM Motor Screw Air Compressor

Another breakthrough for kimair. company with the new K-PS series

Especially low energy consumption, the noticeable quiet running and extremely easy maintenance are the results of a totally new design.

- PM Motor has no motor bearing and make 100% transmission efficiency.

High reliability Air-end

- Equipped high quality bearings.
- High precision machined rotor.
- High cost performance options.
- Rotor is designed to increase the reliability of main compressor with the latest screw profile technology, finishing-milled with many operations, with very high accuracy.

Innovative fan

- Based on the newest technologies.
- Low noise levels.

Heavy-duty air intake filter

- Protects the compressor components by removing 99.9% of dirt particles down to 3 microns.
- Differential inlet pressure for proactive maintenance while minimizing pressure drop.

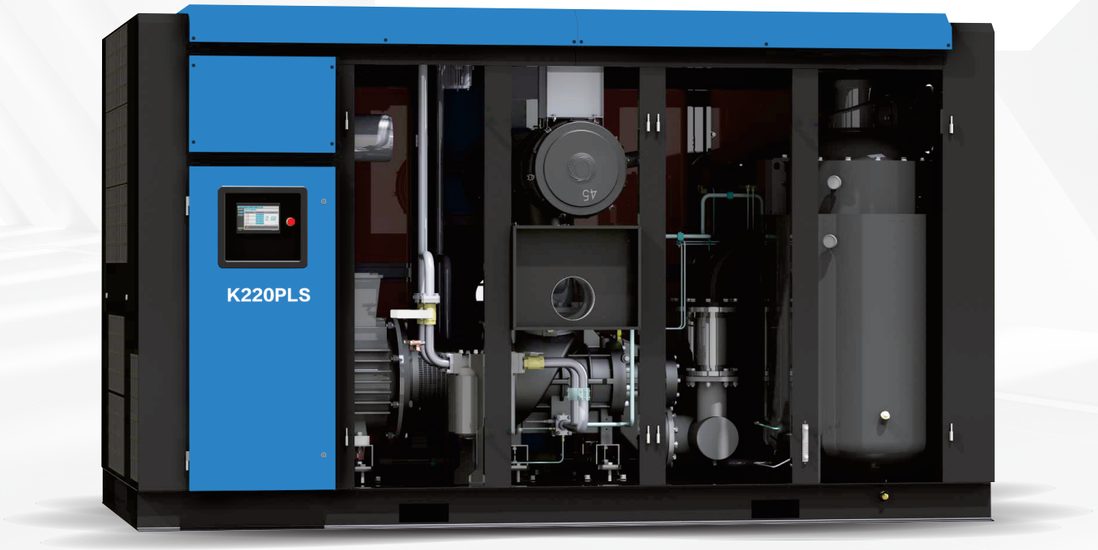
Screw compressor lublicant

- Minimize carbonization and oxidation with a high ignition point. Generate less sludge during driving and maintain longevity. Prevent bubbles, wear resistance.

Low Pressure Single Stage PM Motor Screw Air Compressor

Cost Saving by kimair. Low Pressure Compressor

Normally in the industries such as textile, cement, chemical fiber and glass production, required pressure for air is lower than 5bar. **kimair.** Low pressure compressors which are available for providing low pressure range 2~5bar with much increased air flow compared to 7~8bar normal compressors enable customers to have remarkable cost saving up to 30%.



Fully redundant oil and air separation treatment system

Large displacement air compressor is more suitable for dual oil and air separater tank

Application Scope


Petrochemical


Cement Industry


Sewage Treatment


Glass Industry

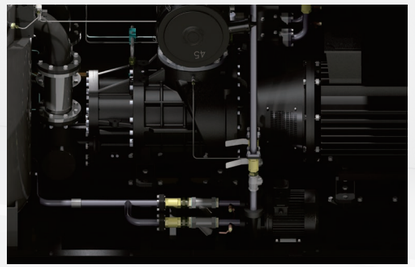

Textile Industry

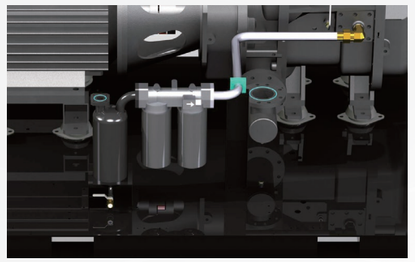
The new K-PL series has already passed the test runs in real conditions with flying colors.
As diverse as the operating conditions may be – its robust technology, low maintenance needs and the pioneering achievements to maximize efficiency will let it quickly win over friends wherever a reliable compressed air supply is indispensable.

kimair. Low Pressure Mechanism

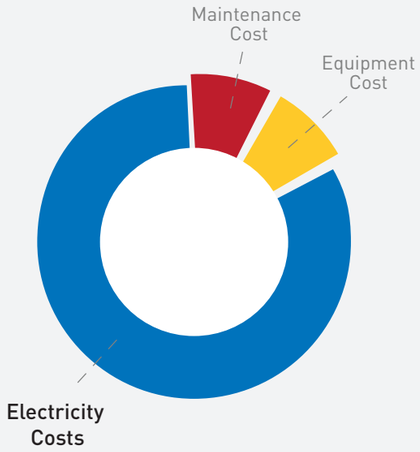
Through application of big rotor and direct connection between motor and air-end , it is able to achieve low speed running and ensure high performance.

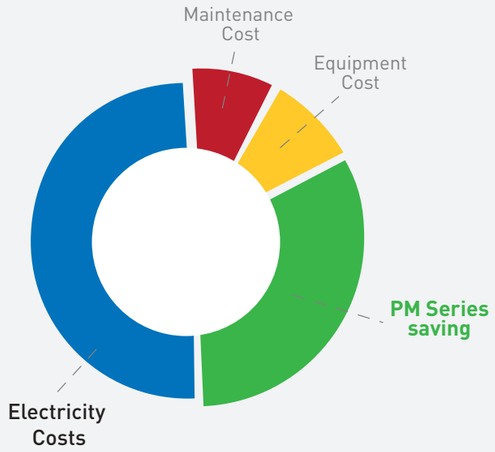
And kimair unique design of air oil separator tank guarantee the outlet oil content less than 3ppm or even equal.


Optional online maintenance system


Air compressor lubricating device.
Temperature - free valve design .
reduce the failure point.

What is Variable Speed Driver (VSD) technology?





Comparison of Running Cost

Over 80% of a compressor's lifecycle cost is taken up by the energy it consumes.

In almost every production environment, air demand fluctuates depending on different factors such as the time of the day, week or even month.

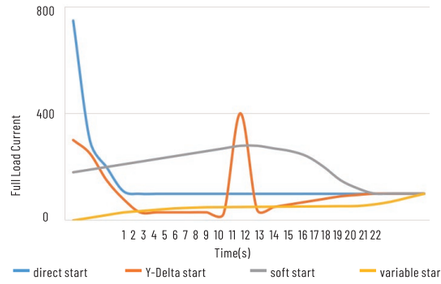
Extensive measurements and studies of compressed air demand profiles show that many compressors have significant variations in air demand.

To cut your energy costs, kimair provides the application "Variable Speed Driver technology" in the compressed air industry.

The design of kimair. K-series machine ensures high efficiency over all the range of working condition, with a wider range of frequency conversion from 30% to 100%.

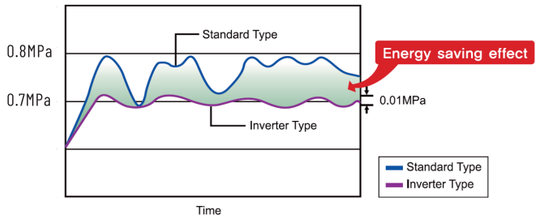
The air output variation is directly proportional to actual power consumption, approximately to energy efficiency curve under ideal status.

Fast reaction for demand of air volume and pressure through constant voltage control



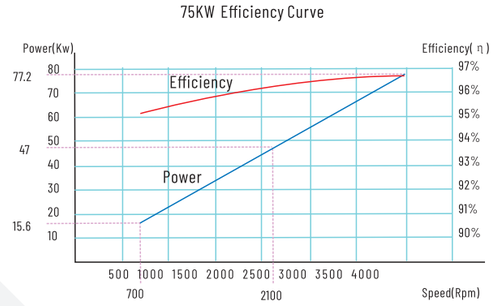
No current peak during start up

Unlimited starting and stopping.
Saving in electrical installation : smaller breakers, fuses, transformers and cables.



Comparison of energy saving between Standard type and inverter type

Through constant pressure control under 0.01MPa, it can produce the required accuracy of compressed air and it leads to achieve more energy saving.



Permanent Magnet Motor

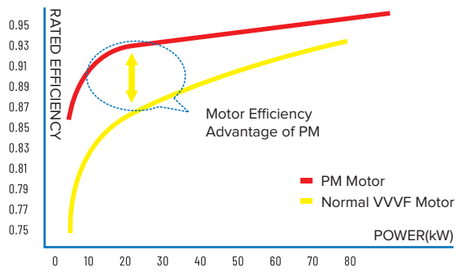
Permanent magnet motor provides much longer durability, applying good quality permanent magnet (NdFeB) which does not loss the excitation even at 180°C.

The motor speed regulation range is wide, the precision is high, the air volume adjustment range is wider.

Kimair. k-series Permanent Magnet Motor

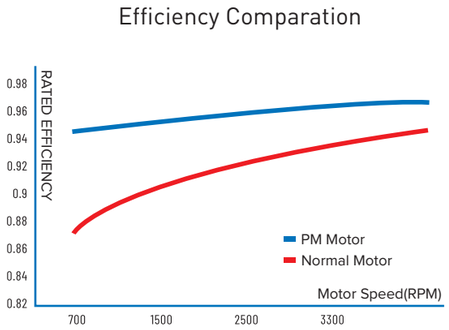
Eliminate the inefficient conversion process from unload to full load.
Applied permanent magnet motor, energy saving is 6 to 7 % higher compared to other ordinary inverter compressor.
Maintain the fluctuation pressure under 0.01 MPa in the process line, reduced the average working pressure.
Soft start method improved current balance of motor and prevented shock of current.

Variable Frequency Control with Permanent Magnet Moto



PM Motor Type compressor with variable frequency control (Inverter Control) is available to save energy from 6 to 7% more than Ordinary Inverter Type Compressor.

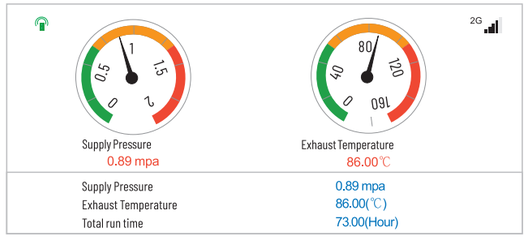
Energy-saving condition

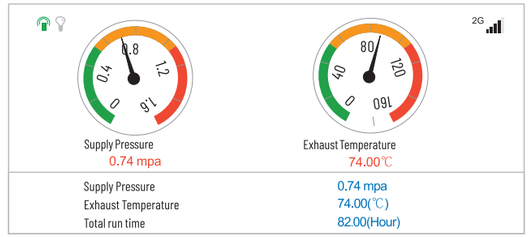


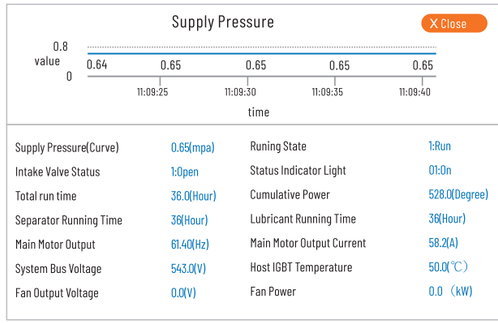
Permanent magnet motor can maintain high motor efficiency at low speed.
When the air consumption is small, it has obvious advantage of saving energy.

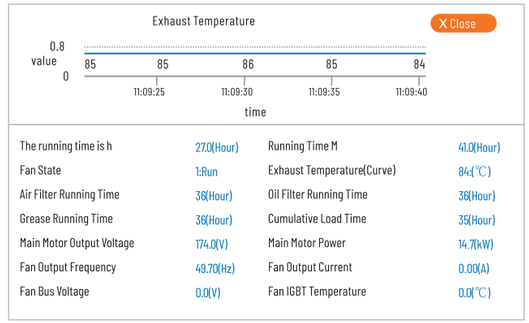
Intelligent Controller Monitoring System

- It is a system that can access the Internet anywhere in the world to monitor the operational status of the operating air compressor.
- The equipment can be resolved remotely by monitoring equipment currently in operation in real time, checking condition, and checking the timing of regular consumables exchange, and viewing the fault records in case of problems with the equipment.
- Installation simply requires an Internet connection.



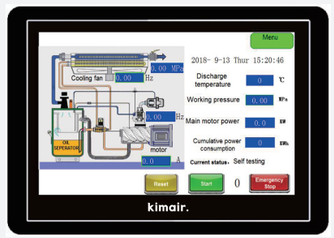






Intelligent controller

- Simple and intelligent interface for ease of operation
- Remote start / stop control
- 20 recording alarm / trip history
- Password protection against unauthorized operation
- Capacity of sequencer control mode for maximum 16 machines. External sequencer is unnecessary.
- Real time compressor status displayed with LCD indicator.
- Record malfunction data for ease of maintenance
- MODBUS communication protocol with capacity of connecting to all type of central monitoring system.
- Warning for consumable parts replacement.
- Detailed record for periodical replacement and maintenance information.



Why use AIRMATICS™?

- Industry 4.0 ready
- Fully interoperable
- Brand agnostic: AIRMATICS™ can be integrated within any air compressor eco-system – regardless of manufacturer
- Reduces energy bills attributable to air compressors by up to 30%
- Minimises sustainability footprint by reducing carbon emissions
- Maximises performance and creates efficiencies
- Reduces wear and tear: IoT capability and continual live communication between air compressor and control centre means performance never exceeds system requirements at any given moment
- Transparent and easy-to-use reporting: The AIRMATICS™ interface is intuitive and makes gaining insights, data and reporting accessible – regardless of location
- Decentralised decision-making: AIRMATICS™ automatically makes the best decisions for your air compressors' functionality and usage
- Fully secure
- Reduce time spent by workforce on manual diagnostics and resolution
- Big data helps businesses make big decisions about their air compressor systems

The future of compressed air monitoring, performance and control

Save up to 30% p/a in energy costs with AIRMATICS™ compressor management technology

AIRMATICS™ is a simple cloud-based air compressor monitoring, performance and control solution that provides real time data, analytics and insights at the push of a button.

AirCloud is the app that provides a visual window into air compressor performance.

Smart Air, Not Hot Air

Are you an energy consultant, OEM, distributor, facilities manager or business owner responsible for getting the most out of a manufacturing facility?
If optimising air compressor performance, reducing energy bills and increasing sustainability levels is important to your business, AIRMATICS™ can help you:

- Become Industry 4.0 ready
- Reduce energy costs attributable to air compressors by 30 percent
- Cut waste and reduce carbon emissions
- Achieve 24/7 and 360° visibility of your entire air compressor network's performance, efficiency and health status
- Automate air compressor monitoring and control by letting AIRMATICS™ make the right performance and efficiency adjustments and decisions for you
- Improve your air compressor network's performance

The smart factory has just got even smarter

Developed to meet the requirements of Industry 4.0, AIRMATICS™ takes air compressor monitoring, performance and control into the 21st century by providing 360° real time performance tracking of businesses' air compressors – from anywhere in the world.

One Control Centre, Infinite Possibilities

Command & Control is the brain behind AIRMATICS™, which is locally installed and digitally connected via the cloud. Capable of managing an infinite number of locally interconnected fixed speed, variable speed or variable output air compressors, Command & Control responds to real time feedback and adjusts settings and performance levels automatically – 24 hours a day, 365 days a year.

TAG
Revolutionising air compressor performance monitoring

AIR-TAG has been designed to monitor the performance of a standalone air compressor – regardless of the air compressor's brand.
Located within the chosen air compressor, AIR-TAG sends data collected during monitoring, via the cloud, to be viewed by the user on an easy-to-use interface.

SMART-TAG
Providing a holistic view of multiple air compressor performance

SMART-TAG provides the host compressor with an alternative control source and enables all compressors to be interconnected with an AIRMATICS™ Command & Control product.
The result? A unified network of compressors that provides instant feedback to the control unit, which then automatically adjusts performance and output according to the air compressor network's requirements.

Command & Control
One Control Centre, Infinite Possibilities

Command & Control is the brain behind AIRMATICS™, which is locally installed and digitally connected via the cloud.
Capable of managing an infinite number of locally interconnected fixed speed, variable speed or variable output air compressors, command and control responds to real-time feedback and adjusts settings and performance levels automatically – 24 hours a day, 365 days a year.

AirCloud
Where Style and Substance Meet

Designed to be as clean and easy to use as possible, the AIRCLOUD user interface provides visual representation of your monitored air compressors across AIR-TAG and SMART-TAG products.
AIRCLOUD's innovative, intuitive and informative approach to data analytics leaves no aspect of your air compressor - or air compressor network - unexplored and no stone unturned.

Single Stage Screw Air Compressor (Fixed Speed)

Technical data

Model	Motor Power (KW)	(HP)	Pressure (Mpa)	Free air delivery (m³/min)	Lub. Oil (L)	Outlet	Weight (kg)	Dimensions (mm)
K30SI	22	30	0.7 0.8	3.32 3.26	12	G1 1/4	550	1200*910*1230
K50SI	37	50	0.7 0.8	6.20 6.10	18	G1 1/2	700	1380*980*1385
K75SI	55	75	0.8 1.0	9.43 7.52	40	G2	950	1600*1060*1470
K100SI	75	100	0.8 1.0	12.20 9.43	55	G2	1450	2000*1120*1590
K150SI	110	150	0.8 1.0	19.60 17.00	80	DN65	2170	2400*1627*1980
K180SI	132	180	0.8 1.0	23.20 19.50	95	DN65	2400	2400*1627*1980
K180VSW	132	180	0.8	23.20	95	DN65	2120	2400*1627*1820
K220SI	160	220	0.8 1.0	26.50 23.00	100	DN80	3620	2800*1828*2150

Note : The above values can be altered for improvement without any notice to customers.

ASME Certified PSM Series
Single Stage PM Motor Screw Air Compressor

Technical data

Model	Motor Power (kW)	(HP)	Free air delivery (m³/min) 0.7Mpa	0.8Mpa	1Mpa	Lub. Oil (L)	Outlet	Weight (kg)	Dimensions (mm)
K10PSM	7.5	10	1.1	1.0	0.9	5	G¾	200	700*720*1030
K15PSM	11	15	1.9	1.8	1.5	8	G1	280	890*870*1170
K20PSM	15	20	2.5	2.3	2.0	8	G1	300	890*870*1170
K30PSM	22	30	3.8	3.3	2.7	15	G1¼	400	1100*830*1300
K50PSM	37	50	6.7	6.4	5.5	20	G1½	600	1200*880*1470
K75PSM	55	75	10.2	9.4	8.2	30	G2	900	1550*1200*1600
K100PSM	75	100	13.2	12.2	10.5	45	G2	1100	1650*1170*1770
K120PSM	90	120	17.3	15.4	13.5	65	DN65/G2	1450	1900*1550*1700
K150PSM	110	150	21.3	18.8	16.8	135	DN80G2½	2100	2400*1750*1900
K180PSM	132	180	25.0	22.4	20.5	135	DN100	2500	2400*1850*1980
K220PSM	160	220	30.5	28.0	24.5	135	DN100	3500	2500*2100*2350
K250PSM	185	250	32.0	30.0	26.8	170	DN100	3700	3000*1900*2500
K340PSM	250	340	41.5	40.0	36.5	250	DN100	4150	2710*2350*2350

Note : The above values can be altered for improvement without any notice to customers.

Single Stage PM Motor Screw Air Compressor (Oil Cooling Motor)

Technical data

Model	Motor Power (kW)	(HP)	Free air delivery (m³/min) 0.7Mpa	0.8Mpa	1Mpa	Lub. Oil (L)	Outlet	Weight (kg)	Dimensions (mm)
K10PSO	7.5	10	1.1	1.0	0.9	5	G¾	200	700*720*1030
K15PSO	11	15	1.9	1.8	1.5	8	G1	280	890*870*1170
K20PSO	15	20	2.5	2.3	2.0	8	G1	300	890*870*1170
K30PSO	22	30	4.2	4.0	3.4	15	G1¼	400	1085*824*1300
K50PSO	37	50	6.8	6.4	5.4	20	G1½	550	1200*960*1450
K75PSO	55	75	10.2	9.4	8.2	30	G2	900	1550*1200*1600
K100PSO	75	100	13.2	12.2	10.5	45	G2	1100	1650*1170*1800

Note : The above values can be altered for improvement without any notice to customers.

Single Stage PM Motor Screw Air Compressor

Technical data

Model	Motor Power (kW)	(HP)	Free air delivery (m³/min) 0.7Mpa	0.8Mpa	1Mpa	Lub. Oil (L)	Outlet	Weight (kg)	Dimensions (mm)
K10PS	7.5	10	1.1	1.0	0.9	5	G¾	200	700*720*1030
K15PS	11	15	1.9	1.8	1.5	8	G1	280	890*870*1170
K20PS	15	20	2.5	2.3	2.0	8	G1	300	890*870*1170
K30PS	22	30	3.8	3.3	2.7	15	G1¼	400	1100*830*1300
K50PS	37	50	6.7	6.4	5.5	20	G1½	600	1200*880*1470
K75PS	55	75	10.2	9.4	8.2	30	G2	900	1550*1200*1600
K75PSV	55	75	10.2	9.4	8.2	30	G2	1000	1550*1130*1800
K100PS	75	100	13.2	12.2	10.5	45	G2	1100	1650*1170*1770
K100PSV	75	100	13.2	12.2	10.5	45	G2	1200	1650*1170*1850
K120PS	90	120	17.3	15.4	13.5	65	DN65/G2	1450	1900*1550*1700
K150PS	110	150	21.3	19.7	16.8	135	DN80G2½	2100	2400*1750*1900
K180PS	132	180	25.0	22.4	20.5	135	DN100	2500	2400*1850*1980
K220PS	160	220	30.5	28.0	24.5	135	DN100	3500	2500*2100*2350
K250PS	185	250	32.0	30.0	26.8	170	DN100	3700	3000*1900*2500
K340PS	250	340	41.5	40.0	36.5	250	DN100	4150	2710*2350*2350

Note : The above values can be altered for improvement without any notice to customers.

Two Stage PM Motor Screw Air Compressor

Technical data

Model	Motor Power (kW)	(HP)	Free air delivery (m³/min) 0.7Mpa	0.8Mpa	1Mpa	1.25Mpa	Lub. Oil (L)	Outlet	Weight (kg)	Dimensions (mm)
K30PE	22	30	4.2	3.9	3.4	2.6	12	G1¼	600	1400*850*1600
K50PE	37	50	7.5	7.0	6.2		36	G1½	980	1600*970*1830
K75PE	55	75	12.0	11.0	9.5		60	G2½	1600	1860*1300*1750
K100PE	75	100	16.2	14.5	13.0	11.0	60	DN65/G2	1800	1900*1550*1700
K120PE	90	120	19.5	18.5	16.2	12.5	75	DN80/G2½	2800	2400*1750*1900
K150PE	110	150	23.1	21.7	19.2	17.0	135	DN100	2800	2400*1850*1970
K180PE	132	180	28.5	27.1	23.8	21.0	125	DN100	3200	2700*1900*2200
K220PE	160	220	32.0	30.9	28.5	24.0	140	DN100	4200	3000*1900*2500
K250PE	185	250	37.9	35.2	31.2	27.5	150	DN125	5000	3200*1900*2450
K270PE	200	270	43.0	40.5	35.0	31.0	150	DN125	5000	3200*1900*2450
K300PE	220	300	46.0	44.0	38.5	33.0	150	DN125	5000	3200*1900*2450
K340PE	250	340	53.0	51.0	42.5	37.5	150	DN125	5200	3300*2400*2400

Medium Pressure PM Motor Screw Air Compressor

Technical data

Model	Motor Power (kW)	(HP)	Free air delivery (m³/min) 30bar	40bar	Cooling method	Outlet	Weight (kg)	Dimensions (mm)
K100PHE	75	100	6.0	6.0	Air	DN32	1800	2080*1365*1740
K120PHE	90	120	8.0	8.0	Air	DN32	2000	2080*1365*1740
K150PHE	110	150	10.0	10.0	Air	DN32	2500	2300*1660*1820
K180PHE	132	180	12.0	12.0	Air	DN32	2800	2300*1660*1820
K220PHE	160	220	16.0	16.0	Air	DN50	3400	3200*2000*2200
K300PHE	220	300	20.0	20.0	Air	DN50	3750	3200*2000*2200
K340PHE	250	340	25.0	25.0	Air	DN50	4050	3200*2000*2200

Low Pressure Single Stage PM Motor Screw Air Compressor

Technical data

Model	Motor Power (kW)	(HP)	Free air delivery (m³/min) 0.3Mpa	0.4Mpa	Outlet	Weight (kg)	Dimensions (mm)
K100PLS	75	100	23.0	19.0	DN150	2300	2500*1700*1940
K120PLS	90	120	30.0	23.0	DN150	3100	3000*1800*2000
K150PLS	110	150	32.0	28.0	DN150	3200	3050*1800*2100
K180PLS	132	180	40.0	35.0	DN200	3700	3200*1950*2100
K220PLS	160	220	49.0	40.5	DN200	4000	3300*2200*2260
K250PLS	185	250	57.0	47.0	DN200	6000	3100*2400*2460
K270PLS	200	270	62.0	52.0	DN200	6500	3800*2400*2550
K300PLS	220	300	67.0	57.0	DN200	6700	4000*2400*2530
K340PLS	250	340	77.0	65.0	DN200	7000	4000*2400*2530

Note : The above values can be altered for improvement without any notice to customers.

Low Pressure Two Stage PM Motor Screw Air Compressor

Technical data

Model	Motor Power (kW)	(HP)	Free air delivery (m³/min) 0.45Mpa	0.5Mpa	Outlet	Weight (kg)	Dimensions (mm)
K75PLE	55	75	13.8	13.0	DN65	1900	2100*1500*1700
K100PLE	75	100	19.6	18.5	DN80	2700	2380*1750*1900
K120PLE	90	120	24.3	22.0	DN100	2900	2450*1850*1970
K150PLE	110	150	28.0	26.5	DN100	3600	2700*1900*2200
K180PLE	132	180	32.0	30.5	DN100	4500	3000*1900*2350
K220PLE	160	220	40.0	38.0	DN125	5500	3300*2300*2500
K250PLE	185	250	45.0	42.5	DN125	6000	3300*2300*2500
K270PLE	200	270	54.5	52.0	DN150	6500	3450*2400*2910
K300PLE	220	300	60.0	58.0	DN150	7000	3450*2400*2910
K340PLE	250	340	64.0	61.0	DN200	7600	3450*2400*2920

Note : The above values can be altered for improvement without any notice to customers.

Water Lubricating Oil Free PM Motor Single Screw Air Compressor

Technical data

Model	Motor Power (KW)	Free air delivery(m³/min) 0.8Mpa	1.0Mpa	Lubricating water (L)	Cooling water in out diameter	Air outlet	Weight (kg)	Dimensions (mm)
K10SFPS	7.5	1.17	1.05	10	1 1/4"	3/4"	320	800×800×1200
K20SFPS	15	2.43	2.17	26	1 1/4"	3/4"	440	1200×755×1130
K30SFPS	22	3.70	3.21	30	1 1/4"	1"	640	1400×900×1285
K50SFPSA/W	37	6.50	5.33	40	1 1/4"	1 1/4"	880	1580×1000×1485 1500×1080×1300(W)
K75SFPSA/W	55	10.30	8.55	100	2"	2"	1100	2050×1300×1690 1800×1360×1670(W)
K100SFPSA/W	75	13.00	11.50	100	2"	2"	1230	2180×1350×1705 1800×1360×1670(W)
K120SFPSA/W	90	16.60	14.66	120	2"	2 1/2"	2080	2550×1500×1825 2200×1550×1800(W)
K150SFPSA/W	110	20.20	16.66	120	2"	2 1/2"	2230	2550×1500×1825 2200×1550×1800(W)
K180SFPSA/W	132	23.52	19.97	120	2"	2 1/2"	2360	2800×2128×1860 2200×1550×1800(W)
K220SFPSW	160	28.11	25.45	160	2"	DN80	3900	2700×1800×1970
K250SFPSW	185	31.32	29.00	160	2"	DN80	4050	2700×1800×1970
K270SFPSW	200	36.75	31.80	200	2"	DN100	4200	2700×1800×1970
K300SFPSW	220	39.60	35.70	200	2"	DN100	4400	2700×1800×1970
K340SFPSW	250	45.00	40.00	200	2"	DN100	4800	2700×1800×1970

Note : The above values can be altered for improvement without any notice to customers.

Refrigerated Compressed Air Dryer

Pressure dew point: 2-10ºC
Max inlet temperature : 60ºC
Max. ambient temperature : 40ºC
Min. ambient temperature : 5ºC
Cooling type : Air cooling

Technical data

Model	Capacity Nm³/min	Power Compressor (KW)	Power Cooling Fan (W)	Power Supply V/Ph/Hz	Pressure (Max.) Mpa	Refrigerant	Air inlet/outlet Pipe diameter	Dimensions(mm) L	W	H	Weight (Kg)
KR-01	1.2	0.85	55	220/1/50	1.3	R134A	1"	630	450	640	48
KR-02	2.4	0.85	90	220/1/50	1.3	R22	1"	700	450	830	78
KR-03	3.8	1	150	220/1/50	1.3	R22	1 1/2"	850	500	920	105
KR-06	6.5	1.25	190	220/1/50	1.3	R22	1 1/2"	880	550	1020	125
KR-08	8.5	1.8	190	220/1/50	1.3	R22	1 1/2"	1050	580	1000	130
KR-10	10.7	2.5	2*150	380/3/50	1.3	R22	2"	1180	670	1080	180
KR-13	13.5	2.5	2*150	380/3/50	1.3	R22	2"	1180	670	1080	192
KR-15	18	3	550	380/3/50	1.3	R22	DN65	1400	640	1310	240
KR-20	23	4	550	380/3/50	1.3	R22	DN80	1400	640	1310	280
KR-25	28	4.5	3*150	380/3/50	1.3	R22	DN80	1700	850	1468	380
KR-30	33	5	3*190	380/3/50	1.3	R22	DN100	1840	850	1520	480
KR-40	45	7.5	3*240	380/3/50	1.3	R22	DN100	2100	1050	1697	620
KR-50	55	9	3*380	380/3/50	1.3	R22	DN125	2450	1100	1697	780
KR-60	65	10	3*670	380/3/50	1.3	R22	DN125	2550	1100	1834	970

Model	Capacity Nm³/min	Power Compressor (KW)	Power Cooling Fan (W)	Power Supply V/Ph/Hz	Pressure (Max.) Mpa	Refrigerant	Air inlet/outlet Pipe diameter	Dimensions(mm) L	W	H	Weight (Kg)
KDR-01	1.2	0.325	40	220/1/50	1.6	R134A	1"	560	400	730	34
KDR-02	2.5	0.42	85	220/1/50	1.6	R134A	1"	640	520	890	50
KDR-03	3.6	0.772	85	220/1/50	1.6	R410A	1"	640	520	890	55
KDR-05	5.0	0.928	129	220/1/50	1.6	R410A	1 1/2"	700	540	1000	67
KDR-06	6.8	1.155	129	220/1/50	1.6	R410A	1 1/2"	700	540	1000	70
KDR-08	8.5	1.75	170	220/1/50	1.6	R410A	2"	900	610	1070	90
KDR-10	10.9	2.72	150	380/3/50	1.6	R410A	2"	900	610	1070	100
KDR-13	12.8	2.72	150	380/3/50	1.6	R410A	2"	900	610	1070	100
KDR-15	16.0	3.35	360	380/3/50	1.0	R407C	DN65	1170	900	1400	272
KDR-20	22.0	3.8	360	380/3/50	1.0	R407C	DN65	1170	900	1420	290
KDR-25	26.8	4.95	360	380/3/50	1.0	R407C	DN80	1450	1000	1615	347
KDR-30	32.0	5.8	500	380/3/50	1.0	R407C	DN80	1450	1000	1635	368
KDR-40	45.0	7.55	500	380/3/50	1.0	R407C	DN100	1450	1000	1635	420

Note : The above values can be altered for improvement without any notice to customers.

High Temperature Refrigerated Compressed Air Dryer

KRH Series Condition

Pressure dew point: 2-10ºC
Max. inlet temperature : 80ºC
Refrigerant : R134a, R410a
Working pressure : ≤ 1.0Mpa/1.6Mpa
Pressure drop : ≤ 0.03Mpa
Cooling type : Air cooling

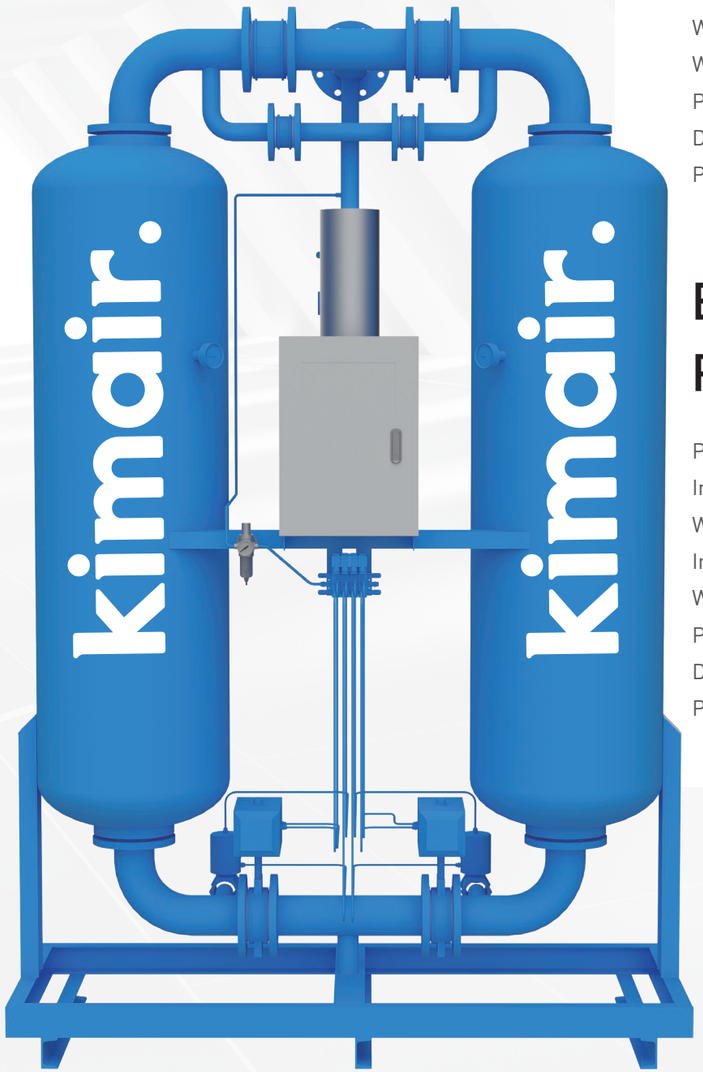
Technical data Max. 1.0Mpa(With Filter)

Model	Capacity Nm³/min	Compressor Power KW	Cooling fan Power W	Power Supply V/Ph/Hz	Air inlet/outlet Pipe diameter	Dimensions (mm) L	W	H	Weight (Kg)
KRH-01F	1.2	0.325	40*2	220/1/50	1"	680	450	840	58
KRH-02F	2.5	0.42	85*2	220/1/50	1"	760	490	995	76
KRH-03F	3.6	0.712	85*2	220/1/50	1"	760	490	995	85
KRH-06F	6.8	1.155	130*2	220/1/50	1 1/2"	870	555	1125	105
KRH-08F	8.5	1.75	85*4	220/1/50	2"	1075	660	1420	130
KRH-10F	10.9	2.72	75*4	380/3/50	2"	1075	660	1420	150
KRH-13F	12.8	2.72	75*4	380/3/50	2"	1075	660	1420	155

Technical data Max.1.6Mpa(With out Filter)

Model	Capacity Nm³/min	Compressor Power KW	Cooling fan Power W	Power Supply V/Ph/Hz	Air inlet/outlet Pipe diameter	Dimensions (mm) L	W	H	Weight (Kg)
KRH-01	1.2	0.325	40*2	220/1/50	1"	560	400	730	42
KRH-02	2.5	0.42	135	220/1/50	1"	640	520	890	62
KRH-03	3.6	0.712	135	220/1/50	1"	640	520	890	67
KRH-05	5.0	0.928	215	220/1/50	1 1/2"	700	540	1000	83
KRH-06	6.8	1.155	215	220/1/50	1 1/2"	700	540	1000	88
KRH-08	8.5	1.750	270	220/1/50	2"	900	610	1070	115
KRH-10	10.9	2.72	260	380/3/50	2"	900	610	1070	123
KRH-13	12.8	2.72	260	380/3/50	2"	900	610	1070	123

Note : The above values can be altered for improvement without any notice to customers.



Heatless Purge Desiccant Air Dryer

Purge air : ≤ 12~15%
Inlet temperature : 0°C~45°C
Inlet oil content : ≤ 0.01ppm
Working pressure : 0.6~1.0Mpa
Working periods : T=4~20Minutes
Pressure dew point : -20°C~40°C
Desiccant : Activated aluminum or Molecular sieve
Power supply : 220V/50HZ/1Ph

Externally Heated Pure Desiccant Dryer

Purge air : ≤ 4~6%
Inlet oil content : ≤ 0.01ppm
Working periods : T=60~180Minutes
Inlet temperature : 0°C~45°C
Working pressure : 0.4~1.0Mpa
Pressure dew point : -20°C~-70°C
Desiccant : Activated aluminum or Molecular sieve
Power : 380v 50Hz

Technical data (Heatless Purge Desiccant Air Dryer)

Model	Capacity Nm³/min	Air inlet/outlet Pipe diameter	Dimensions (mm) L	W	H	Weight (Kg)
KDHL-1	1.2	1"	910	400	1446	120
KDHL-2	2.4	1"	910	400	1548	140
KDHL-3	3.8	1 1/2"	1000	450	1888	220
KDHL-6	6.5	1 1/2"	1200	500	1957	380
KDHL-8	8.5	1 1/2"	1200	500	1960	430
KDHL-10	10.7	2"	1400	600	2095	520
KDHL-13	13.5	2"	1400	600	2145	520
KDHL-15	18	DN65	1450	600	2216	640
KDHL-20	23	DN80	1670	650	2450	730
KDHL-30	35	DN100	1750	750	2573	960
KDHL-40	45	DN100	1820	750	2568	1150
KDHL-50	55	DN125	1900	800	2850	1380
KDHL-60	65	DN125	2100	800	2894	2000
KDHL-80	85	DN150	2800	1550	2950	2580
KDHL-100	110	DN150	3000	1650	3080	3800

Note : The above values can be altered for improvement without any notice to customers.

Technical data (Externally Heated Pure Desiccant Dryer)

Model	Capacity Nm³/min	Heater power KW	Air inlet/outlet Pipe diameter	Dimensions (mm) L	W	H	Weight (Kg)
KDH-1	1.2	1.5	1"	910	400	1446	145
KDH-2	2.4	1.5	1"	910	400	1546	160
KDH-3	3.8	1.5	1 1/2"	1000	450	1888	245
KDH-6	6.5	3	1 1/2"	1200	500	1957	405
KDH-8	8.5	3	1 1/2"	1200	500	1960	445
KDH-10	10.7	4.5	2"	1400	600	2095	560
KDH-13	13.5	4.5	2"	1400	600	2150	620
KDH-15	18	4.5	DN65	1450	600	2216	900
KDH-20	23	6	DN80	1670	650	2450	1170
KDH-30	35	8	DN100	1750	750	2697	1460
KDH-40	45	8	DN100	1820	750	2750	1820
KDH-50	55	12	DN125	2000	800	2894	2020
KDH-60	65	15	DN125	2100	800	2894	2410
KDH-80	85	27	DN150	2820	1550	2950	2800
KDH-100	110	36	DN150	3000	1650	3080	4020

Note : The above values can be altered for improvement without any notice to customers.

Oil Water Separator

Condensate water flows into depressurization chamber from water inlets, the depressurization cotton in the chamber can filter some granular impurities and release condensate water;

Condensed water after pressure release enters barrel 1, and the primary oil absorption elementcan absorb most of the oil in condensed water;

Condensate with a small amount of oil enters barrel 2, the secondary oil absorption element will absorb the remaining oil in condensate;

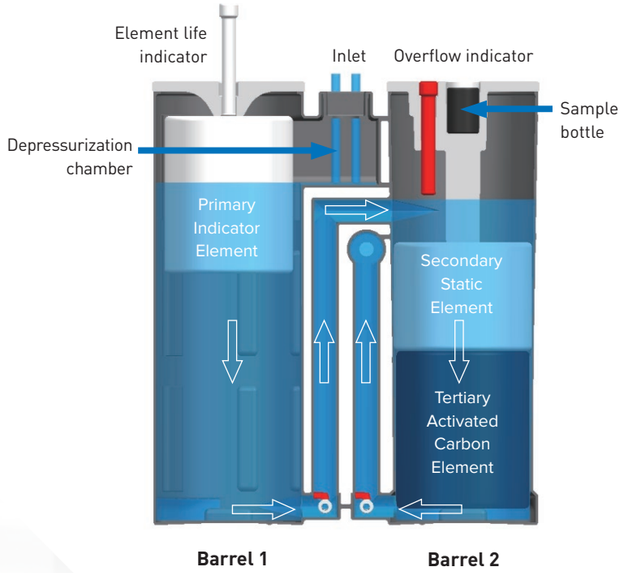
The condensate after oil removing is filtered by a three-stage activated carbon element toadsorb the residual hydrocarbon compounds;

Clean condensate meet the national environmental requirements, can be discharged directlyfrom the outlet;

Element life indicator (white rod) can visually display oil absorption status of the element,indicator sinks to the end that means the element absorbs oil fully which need to be replaced.

Selection instructions

KOWS OiL condensate oil water separator adopts the simplest selection method and does not require a complex specification selection table.
For example, for a 10 m3/min air pressure system that works for 8 hours a day, choose the SEP10 condensate oil water separator.



Technical data

Model	KOWS-5	KOWS-10	KOWS-20	KOWS-30	KOWS-60
Max. compressor capacity	5m³/min	10m³/min	20m³/min	30m³/min	60m³/min
Max.oil absorption	5 L	10 L	15 L	25 L	50 L
Inlet	2*G1/2”	2*G1/2”	2*G1/2	2*G1/2	2*G1/2”
Outlet	G 1"	G 1"	G 1"	G 1"	G 1"
Test valve	Yes	Yes	Yes	Yes	Yes
Sample bottle	Yes	Yes	Yes	Yes	Yes
Service drain	Yes	Yes	Yes	Yes	Yes
Element life indicator	Yes	Yes	Yes	Yes	Yes
Over flow indicator	Yes	Yes	Yes	Yes	Yes
Target output value	<10PPM	<10PPM	<10PPM	<10PPM	<10PPM
Housing material	PE	FE	PE	PE	PE
Dimensions (L*W*H)	550*190*610	650*240*750	780*305*900	970*380*900	1150*470*1045
Net weight	11.5 kg	22 kg	32 kg	42 kg	80 kg

Note : The above values can be altered for improvement without any notice to customers.

Electric Timer Auto Drain Trap

Condensed water will be produced in the process of compressed air system. Quality of compressed air will be seriously affected if the condensate containing oil and particle impurities can not be discharged in time. KET trap from Kimair is a combination of an electronic timer and a solenoid valve designed to automatically discharge condensate from compressed air systems. It is widely used in air compressor, air storage tank, filter, separator, dryer and other air pressure systems. KET trap is a kind of standard type of timer controlled drain valve with a wide range of specifications and multiple choices in terms of connecting port, working pressure, applicable voltage and materials. KET trap is paid attention in details, selected moderate materials, which is reliable and cost-effective.

Features

- Protective class IP65
- Discharge and interval time can be adjusted
- Manual test
- Flame retardant timer
- High reliability
- Equipped with ball valve strainer
- Easy to clean strainer
- Multiple voltages and connecting ports available
- High pressure and all stainless steel model available
- Optional heating valve to prevent freezing in cold area

Technical data

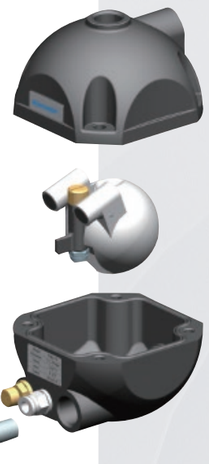
Model	KETA	KETB	KET-H40	KET-HT
Product features	Split type-(L-type)	Integrated type(line-trpe)	High pressure with ball valve strainer	Heating valve can prevent freezing in cold area
Timer cycle range (ON/OFF)	ON:0.5-10 Sec.OFF:0.5-45 Min.		ON:0.5-10 Sec. OFF:0.5-45 Min.	ON:0.5-10 Sec. OFF:0.5-45 Min.
Rated working pressure	0-1.6 Mpa		0-4.0 Mpa	0-1.6 Mpa
Discharge capacity at 0.8Mpa	~160 ml/s About 160 ml/s			
Applicable media	Water、Oil-containing condensate			
Temperature of medium	1-60°C		1-60 °C	1-60 °C
Temperature of ambient	1-60°C (Heating model is optional for sub-zero temperature		1-60 °C	-40~60 °C
Inlet/Outlet of ball valve strainer	Inlet:Male R1/2"、Female Rc1/4" Outlet:Male R1/2"、Rc1/4"Optional	/	Inlet:Male R1/2"+ Female G1/4" Outlet:Male R1/2"	Inlet:Male R1/2"+ Female G1/4" Outlet:Male R1/2"
Inlet/Outlet of solenoid valve	Inlet;Female Rc1/2"、Rc1/4"Optional Outlet:Female Rc1/2"、Rc1/4"Optional	Inlet:Male R1/2" Outlet;Female Rc1/2"	Rc1/2"	Inlet:Female Rc1/2" Outlet:Female Rc1/2"
Type of discharge valve	Direct acting solenoid valve			
Valve orilfice	3.2 mm		2.0 mm	3.0 mm
Front mesh strainer of discharge valve	Yes(Outer set)		Yes	Yes
Material of valve body	Brass		Brass	Brass
Manual function	Yes		Yes	Yes
Protective class	IP65(After correct assembling)			
Supply voltage options	24-380 VAC/DC 50/60HZ Optional		24-380 VAC/DC 50/60Hz Optional	24VDC(100W)/ 110VAC(45W)/ 220VAC(80W)
Overall dimensions L*W*H	86*90*111	92*90*122	94*94*130	150*94*132
Net Weight	575 g	515g	830 g	1390 g

Note : The above values can be altered for improvement without any notice to customers.

Pneumatic Zero Air-loss Drain

Features

- No power required
- Outdoor use
- Real-time discharge according to actual condensate amount, zero air-loss
- Visible change of condensate with translucent housing
- Special products of high pressure or excessive water volume are available
- Environmental explosion proof
- Manual test
- Large orifice matched with strainer, no blockage
- Heating bar can be used for anti-freezing



Operating Principle

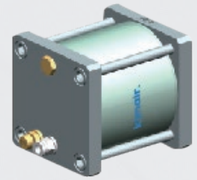
Condensate water flows into water storage tank , water level continues to rise, and float ball rises up with it;

When float ball rises up to a certain high position, control valve makes cylinder to be deflated, the main drain valve opens for drainage;

In the process of condensate discharge, water level continues to drop, and float ball drops down with it;

When float ball drops down to a certain low position, control valve makes cylinder intake, the main drain valve closes and stop drainage;

A small amount of condensed water remains in water storage tank, forming water seal without loss of compressed air.



Technical data

Model	Kag-20	Kag-20A	Kag-20B
Product features	Zero air-loss No power required	①Zero air-loss ②No power required ③Visible condensate water	①Zero air-loss ②No power required ③Visible condensate water
Applications	Filter、refrigeration dryer、air tank	Slightly clear condensate	Slightly clear condensate
Rated working pressure	0-1.6 Mpa	0-1.6 Mpa	0-1.6 Mpa
Ultimate discharge volume	85 L/h(0.3 Mpa) 135 L/h (0.8 Mpa)	85 L/h(0.3 Mpa) 135 L/h (0.8 Mpa)	85 L/h(0.3 Mpa) 135 L/h (0.8 Mpa)
Applicable media	Slightly clear condensate	Slightly clear condensate	Slightly clear condensate
Temperature of medium	1-60°C	1-60°C	1-60°C
Temperature of ambient	1-60°C(Heating bar is optional for sub-zero temperature)		
Inlet	3*G1/2"	G1/2"	G1/2"
Outlet	φ8(G1/4")	φ8(G1/4")	φ8(G1/4")
Port of air balance pipe	G1/2"	G1/4"	G1/4"
Type of discharge valve	Magnetic valve	Magnetic valve	Magnetic valve
Front mesh strainer of discharge valve	Yes(Outer set)	Yes(Inner set)	Yes(Inner set)
Materials of housing	Aluminum	Aluminum and translucent composite	Aluminum and translucent composite
Manual function	Yes	Yes	Yes
Protective class	IP68	IP68	IP68
Overall dimensions L*W*H	129 *110 *122	132 *110 *126	140 *110 *110
N.W.	1.3 Kg	1.8 Kg	1.8 Kg

Note : The above values can be altered for improvement without any notice to customers.

Electronic Zero Air-loss Drain

Features

- Innovative modular structure, more convenient to use and maintain.
- Real-time discharge according to actual condensate amount, zero air-loss.
- LED shows running state.
- Output of alarm signal.
- Visible change of condensate with translucent housing.
- Manual test.
- Large orifice matched with strainer, no blockage.
- Excessive volume， special voltage, high pressure, all stainless steel products are optional.
- Heating bar can be used for anti-freezing.

Technical data

Model	KZD-200E	KZD-400E	KZD-800E	KZD-1800	KZD-2800
Product features	Modular structure,small size and light weight Applicable to filters and small-sized dryers	Zero air-loss Innovative modular structure Complete specifications to meet needs of all air compression systems	Modular structure Multiplematerials optional Visible water level optional	Aluminum housing	Aluminum housing
Applications	Small water volume,such as filters and small-sized dryers	General purpose,such as cooler separtor,air tank.refrigeration dryer	General purpose,such as cooler separtor,air tank.refrigeration dryer	Slightly large water volume	Large water volume
Working pressure	0-1.6Mpa	0-0.3 Mpa 0.3-1.6 Mpa	0-0.3 Mpa 0.3-1.6 Mpa	0-0.3 Mpa	0-0.3 Mpa
Max.discharge volume corresponding to working pressure	12L/h	70 L/h 65 L/h	100 L/h 90 L/h	200 L/h	480 L/h
Recommended Compressor Capacity	10m³/min	50m³/min	100m³/min	200m³/min	600m³/min
Recommended refrigeration dryer capacity	20m³/min	100m³/min	200m³/min	400m³/min	
Recommended filter capacity	100m³/min	500m³/min	1000m³/min	2000m³/min	
Applicable media	Water、Oil-containing condensate	Water、Oil-containing condensate	Water、Oil-containing condensate	Water、Oil-containing condensate	Water、Oil-containing condensate
Temperature of medium	1-60°C	1-60°C	1-60°C	1-60°C	1-60°C
Temperature of ambient	1-60°C(Heating bar is optional for sub-zero temperature)				
inlet	1*G1/2"	2*G1/2"	3*G1/2"	3*G1/2"	3*G3/4"
Outlet	φ8(G1/4")	φ10 (G1/2")	φ10 (G1/2")	φ12(G1/2")	G1/2"
Type of discharge valve	Solenoid valve	Solenoid valve	Solenoid valve	Solenoid valve	Solenoid valve
Valve orifice	2.0mm	4.0 mm	4.0 mm	4.5mm	5.5 mm
Front mesh strainer of discharge valve	Yes (Outer set)	Yes(Outer set)	Yes(Outer set)	Yes(inner set)	Yes(Inner set)
Material of housing	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Manual function	Yes (Outer set)	Yes	Yes	Yes	Yes
Protective class	LP65	IP65	IP65	IP65	IP65
Supply voltage options	24V AC/DC、110V AC、220V AC				
Alarm function	Two kinds of alarm contacts of normally open(N.O)(switch on when alarm) and normally closed(N.C)(switch off when alarm)are available at the same time				
Load of alarm contacts	Max.62.5VA for altematng current,Max.60W ior direct current				
Overall dimensionsL*W*H(mm)	93*79*124	177*110*147	207*110*147	186*110*238	229*176*292
Net Weight	0.6kg	2.2 kg	2.5 kg	3.0 kg	8.8 kg

Note : The above values can be altered for improvement without any notice to customers.

KYF & KF Series Compressed Air Filters

Air filter with differential pressure indicator and sight glass.
Filter housing internal with anti-corrosion trearment.

Working pressure : ≤1.0Mpa/1.6Mpa
Differential pressure : 0.007Mpa
Max. working temperature : 80°C
Service life of filter element : 6000hour

Technical data

Model	Capacity Nm³/min	Air inlet/outlet Connection size	Dimension(mm) L	W	H	Weight Kg
KYF-001 (C,T,A,AA,H)	1.2	3/4"	95	91	240	1.7
KYF-002 (C,T,A,AA,H)	2.3	3/4"	95	91	280	2
KYF-003 (C,T,A,AA,H)	3.5	1 1/2"	125	116	302	2.8
KYF-005 (C,T,A,AA,H)	5.7	1 1/2"	125	116	421	3.5
KYF-007 (C,T,A,AA,H)	7.8	1 1/2"	125	116	421	3.9
KYF-011 (C,T,A,AA,H)	11.6	2"	170	160	550	7.5
KYF-015 (C,T,A,AA,H)	15.5	2"	170	160	550	8
KYF-020 (C,T,A,AA,H)	20	2 1/2"	175	140	730	7.1
KYF-020F (C,T,A,AA,H)	20	DN65	285	140	730	14.5
KYF-025 (C,T,A,AA,H)	25	2 1/2"	175	140	815	7.5
KYF-025F (C,T,A,AA,H)	25	DN65	285	140	815	15
KYF-030 (C,T,A,AA,H)	30	3"	220	175	600	10.8
KYF-030F (C,T,A,AA,H)	30	DN80	350	175	600	17.8
KYF-040 (C,T,A,AA,H)	40	4"	220	175	820	12.3
KYF-040F (C,T,A,AA,H)	40	DN100	350	175	820	23.5
KF-050F (C,T,A,AA,H)	55	DN125	513	273	1220	96
KF-060F (C,T,A,AA,H)	65	DN125	513	325	1220	96
KF-080F (C,T,A,AA,H)	85	DN150	565	325	1220	140
KF-110F (C,T,A,AA,H)	110	DN150	617	377	1320	150
KF-130F (C,T,A,AA,H)	130	DN150	656	416	1390	210
KF-150F (C,T,A,AA,H)	150	DN200	762	462	1470	220

Specification of Filter Element

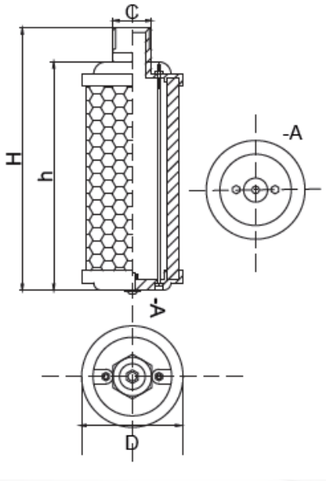
Level	Particle Removal	Oil Removal	Remarks
Level C	3Micron	5ppm	Separator filter
Level T	1Micron	1ppm	Air line filter
Level A	0.01Micron	0.01ppm	High efficiency removal filter
Level AA	0.01Micron	0.001ppm	Ultra high efficiency removal filter
Level H	0.01Micron	0.003ppm	Activated carbon

Note : The above values can be altered for improvement without any notice to customers.

Air Exhaust Muffler

Thoroughly proven on thousands of installations, the word-class air exhaust muffler expertly reduces exponentially perceived nois e without impending equipment performance.

This design is recommended for general purpose air exhaust applications for pressure up to 8.6bar.



Technical data

Model	Connection size	Capacity Nm³/min	Dimension(mm) H	h	D
KXY-02	1/4"	2.4	112	92	46.5
KXY-03	3/8"	5.4	132	110	66
KXY-05	1/2"	7.3	150	125	80
KXY-07	3/4"	15.4	181	156	87
KXY-10	1"	22.6	219	183	99
KXY-12	1 1/4"	38.5	219	183	99
KXY-15	1 1/2"	59	340	299	133
KXY-20	2"	91	476	432	133
KXY-30	3"	204	593	472	173*173
KXY-40	4"	396	597	480	198*198
KXY-60	6"	1020	790	619	275*275

Note : The above values can be altered for improvement without any notice to customers.

Service

24/7
SERVICE HOTLINE

kimair. Screw Air Compressor

As developer and manufacturer, we know our machines by heart and know exactly , when and to what extent which maintenance and service work has to be carried out , in order to ensure trouble–free operation over the long term.

1.Preserving value

So that your investment is secured over the long term

2.Reducing downtimes

Because your customers do not accept delayed deliveries

3.Roducing costs

Because costly consequential damages can be avoided

4.Extending service life

So that you can produce economically for longer

On-site around the world

Europe

Benelux/Denmark/Germany/Finland/France
United Kingdom/Italy/Austria/Poland/Russia/
Sweden/Switzerland/Slovakia/Spain/Czech/
Republic/Belarus

Middle East

Israel/Turkey

Americas

USA/Canada/Mexico/Brazil

Asia

China/India/Indonesia/Japan/Korea/Malaysia/
Singapore/Thailand/Taiwan,China

Oceania

Australia/New Zealand

Africa

Egypt/South Africa