As a leading manufacturer of compressed air systems, KOTECH's global service network is available for your compressed air systems at all times.

Kotech Brand: KOmpressor TECHnology Innovation
Kotech Vision: To be the Pioneer in Industrial Equipment
Kotech Mission: Constantly Improve the Ability of Resource Integration

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KOE SERIES AIR COMPRESSOR

New generation design of KOTECH - more efficient partner

Power 2.2 to 355KW; Flow rate 0.2 to 70.35 m³/min; Pressure 7.5 to 13bar

KOE Series
Setting the Standard

With the latest generation of KOE series rotary screw compressors, KOTECH is pushing the boundaries of compressed air availability and efficiency once again. Intelligent design solutions not only improve the ease of operation and maintainability, but also give this range of stage compressors a unique modern appearance.

KOE Energy Saving Standard

Through improved specific power, air flow optimization and further refinement of the rotor, excellent energy efficiency is achieved. Maximize energy efficiency with a high-performance IE4 drive motor. Kotech's 1:1 drive design eliminates the power loss associated with the original transmission and the gear or V-belt drive system. In addition, radial fans meet the efficiency requirements of the EU Directive 327/2011 for fans. But most importantly, the advanced compressor controller, through the use of a variety of specially developed control options, achieves additional energy savings and minimizes the cost of frequent downtime.

From the outside, the unique and striking design of these systems is complemented by the intelligent component layout inside for greater energy efficiency: for example, all service and maintenance points are within reach and directly accessible from the front, which not only saves time and money, but also maximizes the availability of the compressed air system.

Heat recovery with environmental protection concept

Perfect Partners

The KOE rotary screw compressor is the perfect partner for an efficient industrial compressed air station, and its internal compressor controller offers a variety of communication interfaces (e.g. ETHELNET) for internal centralized control with other host controllers when connected to the KOTECH remote control system. This design approach, through the simple setup of the system, achieves an unprecedented level of efficiency.

Intelligent Thermal Management System

The intelligent thermal management system will introduce the high-temperature circulating oil of the air compressor thermal water heater into the unit during operation, exchange it with water to heat up the water, and absorb the heat energy in the oil and gas to cool the air compressor, prevent the air compressor from skipping at high temperature, reduce the equipment failure rate, reduce maintenance, and ensure the safe supply of air compressor to industrial enterprises. The intelligent thermal management system can help users obtain a large amount of hot water, save other heating energy, reduce enterprise operating costs, and respond to the word call for energy conservation and emission reduction, reduce carbon dioxide emissions, and reduce air pollution.

Why Choose Heat Recovery?

There is a great need to choose heat recovery, as most of the (electrical) energy input to the compressor is converted into heat. Up to 96% of this energy can be recycled. This not only reduces primary energy consumption, but also significantly improves the company's overall energy balance.

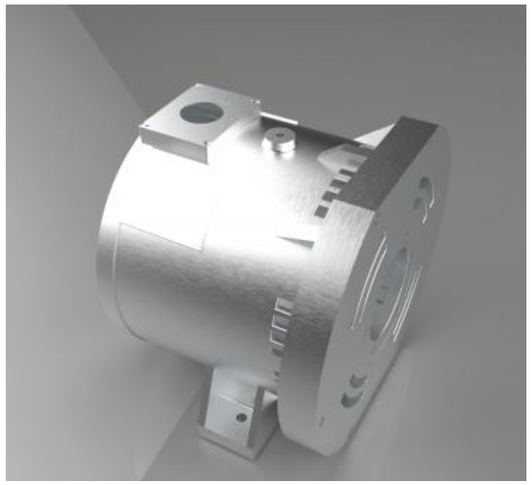
Excellent Accessibility

DESIGNED IN GERMANY

Energy Savings in Every Detail

Energy Saving Motor

This series of motors is a new generation of energy-saving products advocated and recommended by the nternational market at present, and meet the high altitude, harsh environment, overload requirements of larger occasions, is the ideal supporting power KOE air compression.



High Efficiency Controller

KOE controller integrated power frequency conversion, with arbitrary switching of working mode; Exhaust temperature detection; PID automatic adjustment of load rate control pressure balance and other functions; Main motor lack of phase, imbalance, overload, protection function; Phase sequence detection to prevent reversal; Temperature protection: When the actual temperature is detected greater than the set shutdown temperature, the air compressor stops; Machine maintenance information Settings, reminders, perfect fault protection; According to the setting, it can communicate with the upper computer and run in conjunction with other air compressors.

Excellent Cooling Effect

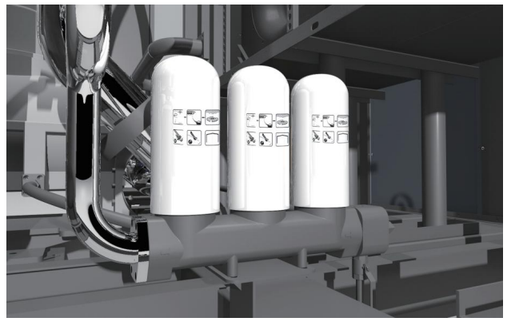
The most troublesome fault for the user of the air compressor is high temperature, and the two most direct solutions to avoid high temperature are to increase the fan power and sufficient cooler dirt coefficient.

Reliable Condensate Pre-separation

The KOE axial centrifugal separator and electronic condensate drainage system are integrated as standard, providing extremely high separation (> 99%) with minimal pressure loss. As a result, reliable and efficient condensate separation is always ensured, even at high ambient temperatures and humidity.

Environmentally Friendly Filter

Manufactured in-house with the latest CNC grinder and in-line laser technology to ensure precise manufacturing tolerances. Its reliability and performance ensure that the operating costs of the compressor remain extremely low throughout its lifetime. At the same time, it also has the advantages of high efficiency, high efficiency, maintenance-free, and high reliability, and consistently provides high-quality compressed air for all walks of life.

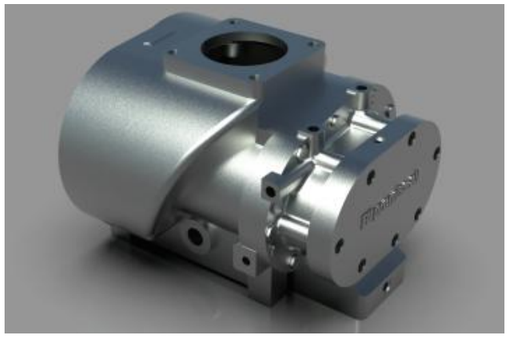


Optimised Intake Valve

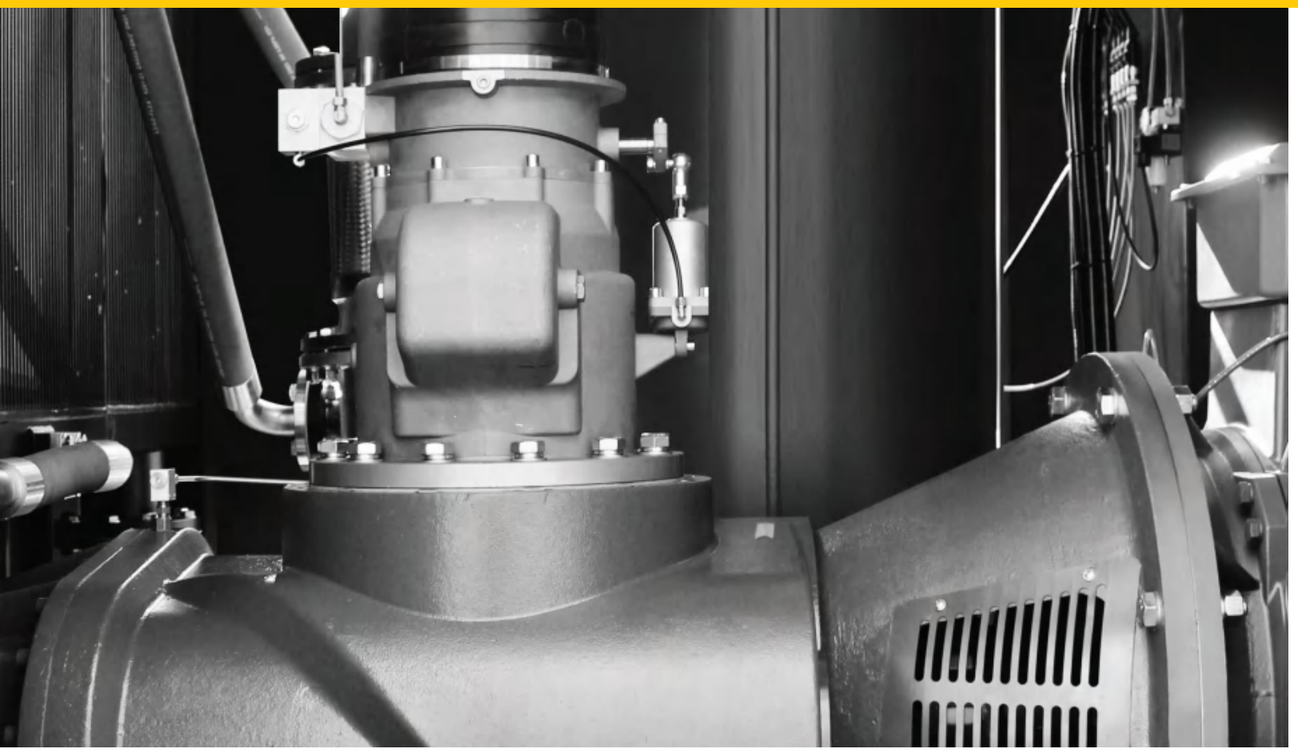
The new flow optimization design of the intake valve helps minimize intake pressure loss and simplifies maintenance. When the air tank reaches a certain pressure, the air inlet is slightly closed under the control of the proportional valve. When the pressure increases further, the air inlet decreases correspondingly. Effectively ensure the normal operation of the entire air compressor system.

1:1 Transmission Ratio, High Efficiency and Energy Saving

With 1:1 direct drive, the drive motor and main engine, together with couplings, form a compact and durable unit that operates with low drive losses.



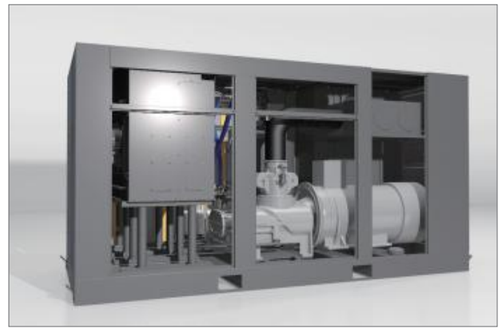
All-Around Efficient



Clever Cooling for Significant Savings

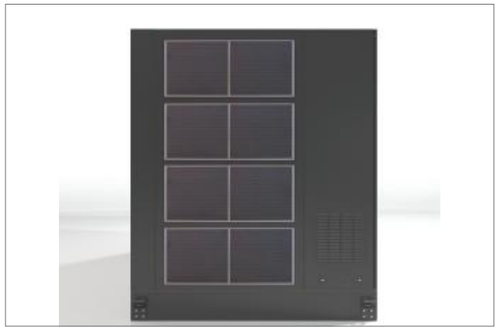
Automatic Temperature Control Technology

A thermostatically controlled fan with a variable speed motor generates the precise amount of cooling air required by the fluid cooler to ensure a lower operating temperature. This significantly reduces the overall energy requirements of the KOE screw compressor system.



Cold Compressed Air

Effective aftercooling helps keep compressor discharge temperatures low. This combined with a centrifugal separator, removes large amounts of condensate and then drains it through an electrically controlled condensate drain without energy loss and also reduces the burden on downstream treatment equipment.



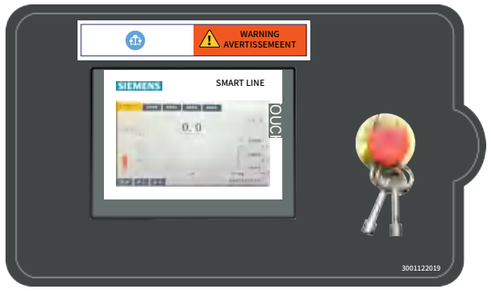
Clean Cooler from Outside

Unlike internally installed heat exchangers, externally installed coolers in KOE systems are easily accessible and easy to clean. As a result, operational reliability and availability are improved due to the ease with which contaminants can be prevented from accumulating.

High Residual Thrust for Exhaust

Integrated radial fans are much more efficient than axial fans and provide higher residual thrust. This allows the hot exhaust to be delivered directly through the pipe without the need for an auxiliary fan.

Leading Intelligent Control System



Kotech new generation of intelligent controllers , with their intuitive high-resolution, oversized color screens, are equipped with network connectivity to achieve higher levels of communication, connectivity and control, greatly enhancing the actual productivity of the air compressor.

- Remote access and control of the compressor from anywhere
- High-intensity illuminated indicators accurately display compressor status from a distance.
- Sequential control of up to 4 controlled compressors without any additional hardware.
- Setting language interface can be selected from a wide range of languages.
- Real-time clock setting start and end.
- Network communication and control.
- Large buttons and intuitive menus for easy compressor control.
- Built-in performance analysis graphs and visual trends.

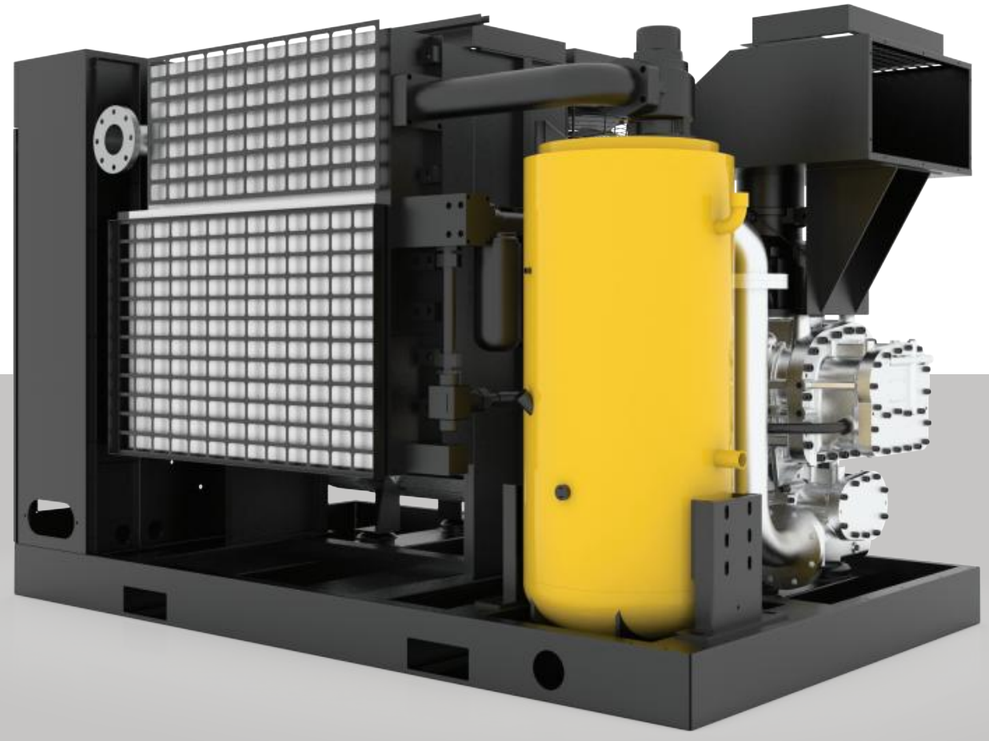
Separate KOTECH Control Cabinet

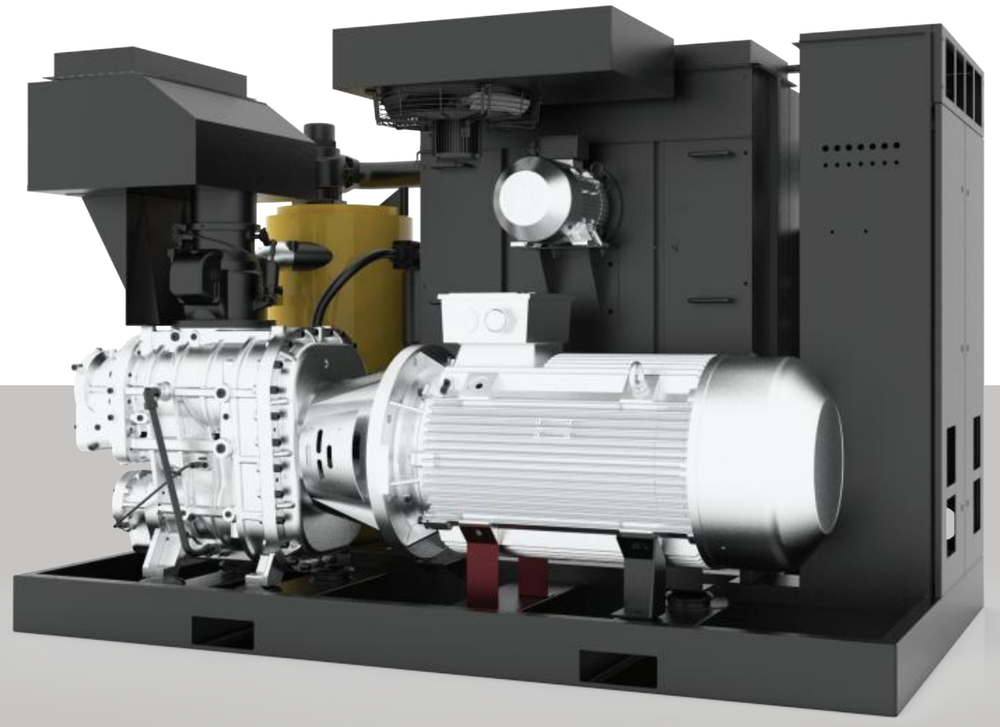
The frequency controlled variable speed drive is installed in its own control cabinet to prevent the compressor from generating heat. A separate fan maintains the operating temperature in the optimum range to ensure maximum performance and service life of the compressor.

Low Energy Consumption and High Efficiency Operation Mode

KOE's control cabinets and machine control systems, both as individual components and as complete systems, have been tested and certified. KOE's control cabinets and control systems, both as individual components and as complete systems, have been tested and certified to achieve high efficiency, low energy consumption and high efficiency operation mode at very low operating costs through intelligent power distribution control. Low energy consumption and high efficiency operation mode is accomplished through intelligent power distribution control with very low operating costs.

Two-stage compression: more efficient internal structure





Optimize Structure, Save Energy and Increase Efficiency

The traditional Two stage often has a larger volume when it requires higher air consumption, which not only causes a waste of floor space, but also increases the cost of maintenance. The new generation KOE series air compressor, after structural optimization, has reduced the original fuselage volume by 50% while achieving the same energy efficiency. This is a major breakthrough, which directly reduces the initial investment in the construction of air compressor room by half. At the same time, we found that after optimizing the structure, due to the reduction of oil and air pipelines, the oil and air transmission is more direct, and the machine efficiency is also increased invisibly. In the future maintenance, we will also reap unexpected surprises for the optimization of the structure.

·Reduce the number and distance of pipelines to ensure that the probability of failure caused by aging and oil leakage of long-term operation pipelines is greatly reduced.
·Reduce the number of pipe joints, and all pipe orifices are sealed with high-temperature resistant O-rings. Directly eliminate oil leakage.
·Reduce subsequent maintenance costs.
·The pipeline is exposed, convenient for cleaning, and more intuitive for inspection and maintenance.

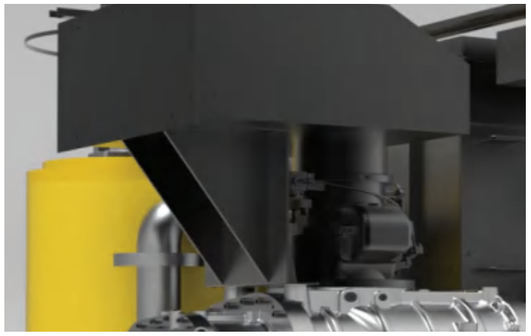
Integrated modular structure with better maintenance

·Replace the air filter: it can be replaced directly outside the case without opening the door
·Major maintenance: just open one door to complete a major maintenance
·Overhaul: The main motor and machine air end when the side door is opened, making installation and maintenance more convenient
·Independent electric control system: the maintenance will not pollute the electrical system, (the electric control box has independent air inlet and exposed filter screen)

New Generation AIR END

·The Air End is the most important part of any screw air compressor. The overall reliability, performance and efficiency of the air compressor largely depend on the design, manufacturing process and assembly of the Air End. Other components of the air compressor mainly play a supporting and monitoring role to ensure the reliable operation and stable performance of the air compressor. The rotor is made of AISI-1045 steel or EN 10083-2 C45+N steel. The profile of the rotor is processed through two special steps. In the first step, we first rough the rotor and carry out the envelope angle of the rotor profile. The second step is to grind the rotor to ensure its solid surface. The shaft is precisely machined to make its deviation less than 0.5 thousandth of an inch or 0.0005 feet. Each pair of rotors has a matching rotor seat. The rotor seat is made of dense cast iron. The size of each rotor seat is checked to ensure its accuracy.

·The inlet end of the rotor is fitted with high quality cylindrical roller bearings to withstand radial loads. Both axial thrust bearings and radial bearings are precision grade vacuum exhaust bearings with harder and more precise rolling surfaces on both the inner and outer The rolling surfaces of the inner and outer raceways are harder and more precise.



Independent air intake system

1.The motor side is the air inlet, to ensure that the electrical components will not be affected by high temperature service life.

2.Motor and chassis original design independent heat dissipation fan, and add the noise reduction system.

3.Cooler air inlet directly inhales the external cold air, high cooling efficiency.

4. No air inlet pipe design, reduce air inlet pressure loss and improve compression efficiency.

5. Convenient replacement and maintenance design. The air filter element can be replaced without opening the cabinet door.

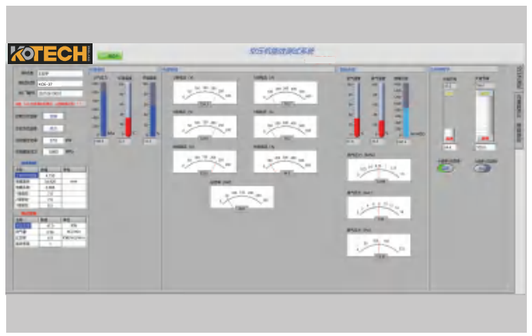
Hot and Cold Partition

·The air inlet at the motor side ensures that the service life of electrical components will not be affected by high temperature.

·The original parts of the motor and case are designed with independent cooling fans, and equipped with silencing system.

·The inlet air of the cooler is directly sucked into the external cold air, with high heat dissipation efficiency.

·The compressor is divided into low temperature zone and high temperature zone, which is an advanced heat dissipation design concept.



Efficiency Improvement

·The air inlet channel is shortened, and the air filter directly enters the air to reduce the inlet pressure difference, which is controlled within 10 KPA.

·The exhaust pipe is shortened and the system differential pressure is controlled within 0.5Mpa.

·The exhaust temperature is accurately controlled to ensure that the lubricating oil is lubricated in the best condition and prevent unnecessary power waste due to the viscosity of the lubricating oil.

·The system is updated and the speed and pressure follow the system, reducing unnecessary pressure waste.

KOTECH Air Compressor Monitoring Platform

KOTECH Industrial Visualization Electronic Thermal Management

KOTECH takes the lead in introducing advanced industrial management concepts. In the field of KOTECH industry, focusing on the typical intelligent manufacturing model, all kinds of data and the application of related technologies generated in all aspects of the whole product life cycle, from customer demand to sales, orders, planning, research and development, design, process, manufacturing, procurement, supply, inventory, delivery and delivery, after-sales service, operation and maintenance, scrap reporting or recycling and remanufacturing. Its core is product data, which greatly extends the scope of traditional industrial data. Such innovation can intuitively display industrial data results to the viewer in a graphical way, provide a human-computer interface for understanding industrial data, and realize the value perception of industrial data.

Data Monitoring

IoT data acquisition gateway, based on the user's different use scenarios, there are two kinds of access programs: external and embedded.

- Cloud configuration protocol: support MODBUS-RTU, CAN protocol, DLT 645-2007, MODBUS-TCP, S7, PROFINET and other communication protocols.
- Supports remote start stop, data collection, parameter modification, remote program upgrading, etc.
- Adopts electrical isolation and communication isolation technology, with strong anti-interference ability and stable signal transmission.
- Single device supports 220V and 24V voltage at the same time, without external power supply
- Support 2G, 4G, LORA, NB-IOT, Ethernet and other communication modes.

Solution

The solutions mainly include: automatic sensing test, automatic data acquisition and transmission, data processing and control, and data output visualization. In the automatic sensing test part, namely the sensor part, its basic function is to detect signals and signal conversion. The sensor is at the front end of the system and is used to obtain monitoring signals. Its performance will directly affect the whole system and play a decisive role in measuring accuracy.

The industrial visualization platform can be based on the 3D real-time rendering engine through 3D virtual reality technology, combined with highly realistic image rendering, and ensure the visual presentation of visualization objects through the built-in visualization model, effect library, and 3D simulation effects of industrial plants and equipment.

The virtual reality technology is organically integrated into the industrial monitoring system. For various data generated during the operation of the equipment, such as equipment temperature, speed, current, voltage, and various real-time capacity, statistical summary data, we give full play to the advantages of data visualization, and reasonably group the data instruments according to the needs of different post monitoring to achieve rapid state switching and adapt to different scenarios.

KOTECH Intelligent Control & IOT

KOTECH Intelligent Control System is applicable to the joint control of various brands of air compressors (with remote start and stop function). The system can choose either cycle mode or master-slave mode to make your air compressor system run more balanced and energy-saving. In addition, it has the function of IOT (Internet of Things) to realize operation and monitoring on mobile phone, and bring more convenience to users.

Remote ON/OFF

Monitoring on Mobile

Intelligent Energy Saving

IOT for Option

HEAT RECOVERY

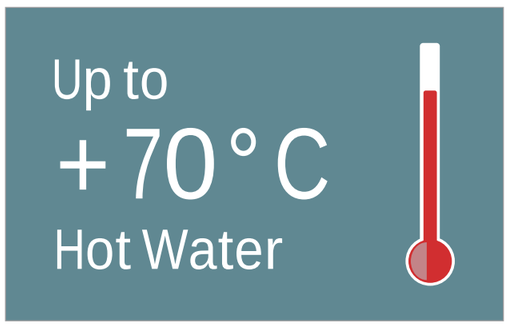
Cost-effective heating

Up to 96% Heat Recovery Rate

KOE has an amazing heat recovery rate. For compressor, 100% of the electric energy which input to the compressor is converted into thermal energy, among them, up to 96% can be used for heat recovery purposes.

Space heating with warm exhaust air

Heating becomes easier: Thanks to a high push radial fan, discharged hot air can be easily transported to the space that needs to be heated. This simple process is constant temperature controlled.



Technology Heating and Service water

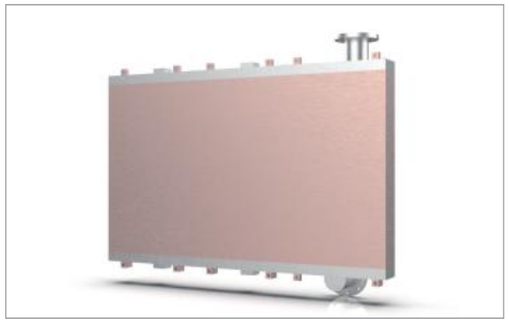
Up to 70 ℃ hot water can be produced by using the heat of reusable compressor through PWT heat exchanger system. For higher temperature requirements, please contact us freely.

Clean hot water

Pure water can also be obtained as well as failures can be avoided if no other water circuits are interconnected.

HEAT RECOVERY

Energy-saving, multi-functional and flexible

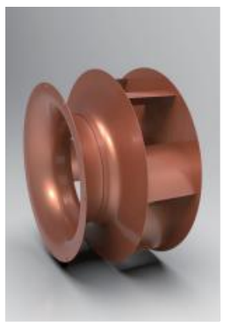


Effective Thermal Management

The integrated heat recovery FSD component is equipped with four electric temperature control valves (ETMs) for the heat recovery system and component oil coolers.

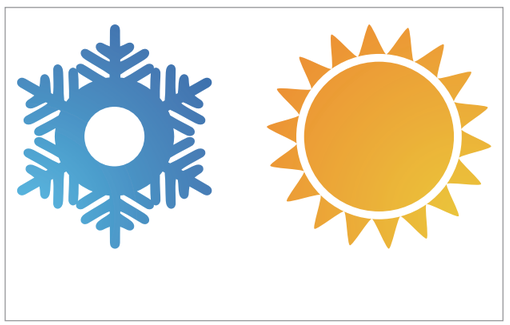
Flexible temperature

The controller can accurately set the required air and compressed air discharge temperature to reach the water discharge temperature required by the heat recovery system.



Smart energy-saving method

If all the heat energy is extracted by the heat recovery system, the relevant components of the compressor will automatically identify the parts of the package cooler that no longer need to be cooled, thus closing the fan on the fluid cooler. It enables further energy saving.



Winter ON & Summer OFF

The energy saving heat recovery system can be started and stopped smartly according to the external environmental temperature. If heat recovery is not required, it can be stopped such as in summer. Under ETM control, the compressor will immediately operate at the highest energy efficiency and lowest air discharge temperature.

Service-friendly

Convenient Oil Separator Service

The oil separator element can be replaced easy after opening the door. It is fast and convenient, and greatly reduces the service time and cost.

External Lubrication

Electric motors must be lubricated while running . The service staff can easily perform this task for the drive motor and fan motors from the outside of
the motor, ensuring maximum safety.

Service Doors Open 180°

The wide opening service doors allow easy access to all components, allowing for maximum convenience in maintenance. It speeds the service work, which reduces operating costs and improving availability.

Easy Replacement of Maintenance Parts

The air filter element and all other service parts are easily accessible and replaceable. Due to the additional pre-separation filter pad on the intake air filter, larger particles can be captured, and the service life of the air filter element is also greatly extended.

Various Patents and Certification Systems

All our R&D engineers, service engineers and sales engineers are fully comply with efficient production processes. From sales engineers to R&D engineers, from components supply to production and after service, we are committed to providing customers with ideal complete air compression station solutions and the best professional service.

CERTIFICATE OF INCORPORATION
OF A
PRIVATE LIMITED COMPANY

Company Number **14046978**

The Registrar of Companies for England and Wales, hereby certifies that

KOTECH GROUP LTD

is this day incorporated under the Companies Act 2006 as a private company, that the company is limited by shares, and the situation of its registered office is in England and Wales.

Given at Companies House, Cardiff

The above information was communicated by electronic means and authenticated by the Registrar of Companies under section 1115 of the Companies Act 2006

Companies House

THE OFFICIAL SEAL OF THE REGISTRAR OF COMPANIES

Service

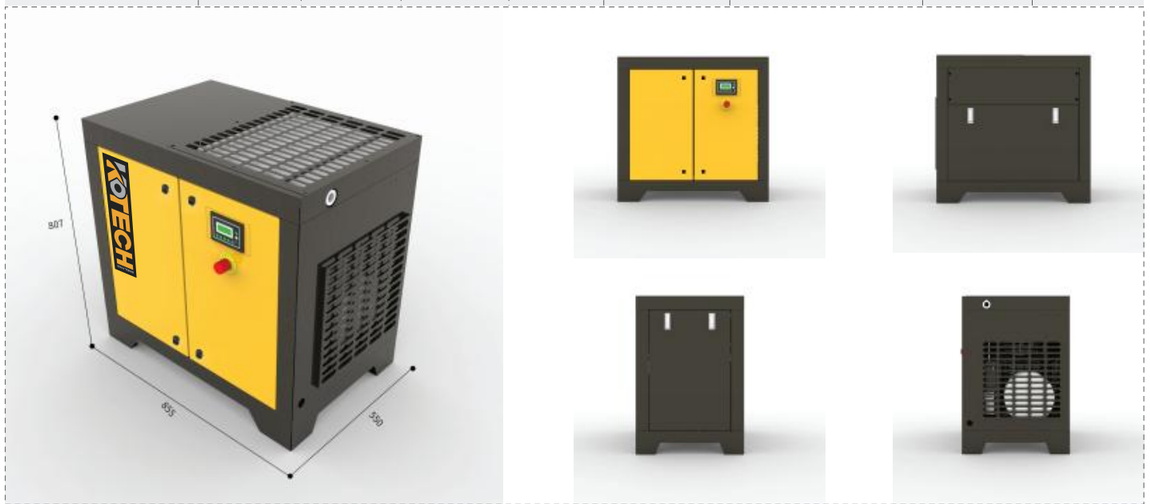
AirCare-flexible maintenance with consistent compressed air quality

AirCare is a fast-responding and flexible maintenance program provided by KOTECH Group. It provides customers with the necessary repair services according to their needs. It ensures the elimination of downtime due to unplanned maintenance and eliminates the expense of installing expensive monitoring systems and the cost of training in various compression techniques.

1.Comprehensive service and maintenance.
2.Reduce costs and increase productivity.
3.Comprehensive Air System Assessment.

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-2.2	0.43	0.39	0.34	0.3	3/4”	750*600*650	61	156
KOE-2.2VSD	0.19 ~0.43	0.18 ~0.39	0.15 ~0.34	0.14 ~0.3	3/4”	750*600*650	61	156
KOE-4	0.59	0.56	0.44	0.34	3/4”	750*600*650	61	156
KOE-4VSD	0.27 ~0.59	0.25 ~0.56	0.20 ~0.44	0.15 ~0.34	3/4”	750*600*650	61	156

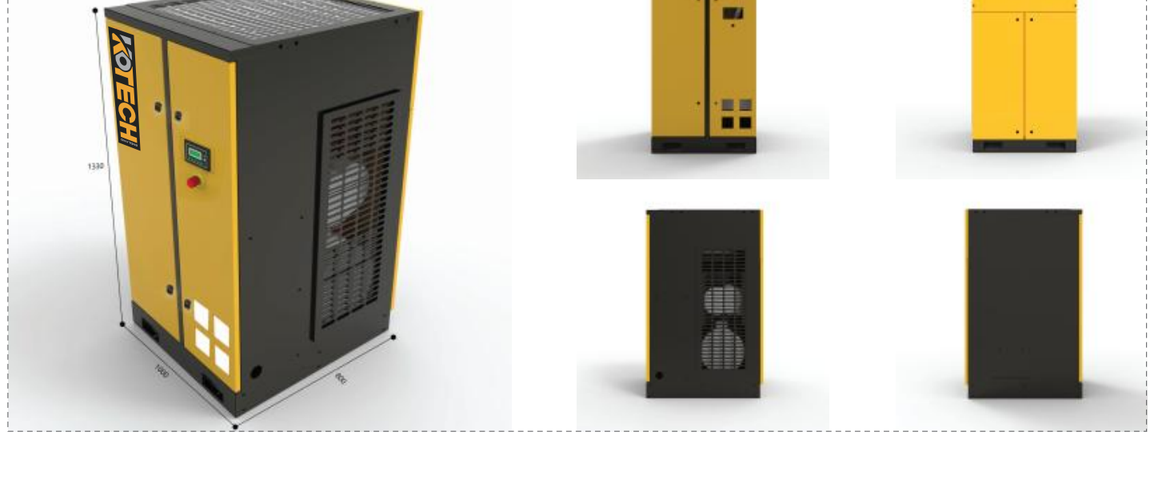
Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-7.5	1.2	1	0.9	0.82	3/4”	855*550*807	61	156
KOE-7.5VSD	0.54 ~1.2	0.45 ~1	0.41 ~0.9	0.37 ~0.82	3/4”	855*550*807	61	254



Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-11	1.82	1.7	1.52	1.35	1”	1014*690*1190	63	317
KOE-11VSD	0.82 ~1.82	0.77 ~1.7	0.68 ~1.52	0.61 ~1.35	1”	1014*690*1190	63	322
KOE-15	2.5	2.3	2.1	1.8	1”	1014*690*1190	63	350
KOE-15VSD	1.13 ~2.5	1.04 ~2.3	0.95 ~2.1	0.81 ~1.8	1”	1014*690*1190	63	355

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-18	3.2	3	2.7	2.4	1-1/4”	1250*773*1200	63	453
KOE-22	3.9	3.7	3.2	2.8	1-1/4”	1250*773*1200	63	480

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-18VSD	1.44 ~3.2	1.35 ~3	1.22 ~2.7	1.08 ~2.4	1-1/4”	1000*800*1330	63	458
KOE-22VSD	1.76 ~3.9	1.67 ~3.7	1.44 ~3.2	1.26 ~2.8	1-1/4”	1000*800*1330	63	485



Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-30	5.4	5	4.6	4	1-1/4”	1450*923*1270	67	669
KOE-37	6.6	6.3	5.6	4.9	1-1/4”	1450*923*1270	67	669
KOE-45	8.3	7.7	7.2	6.4	1-1/4”	1450*923*1270	67	702

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-30VSD	2.43 ~5.4	2.25 ~5	2.07 ~4.6	1.80 ~4	1-1/4”	843*944*1521	67	674
KOE-37VSD	3.06 ~6.8	2.93 ~6.5	2.61 ~5.8	2.30 ~5.1	1-1/4”	843*944*1521	67	674
KOE-45VSD	3.74 ~8.3	3.47 ~7.7	3.24 ~7.2	2.88 ~6.4	1-1/4”	843*944*1521	67	710

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
kOE-30-II	5.92	5.86	/	/	1-1/4”	1630*890*1390	69	680
kOE-30VSD-II	2.66 ~5.92	2.64 ~5.86	/	/	1-1/4”	1630*890*1390	69	680
KOE-37-II	7.56	7.49	7.36	/	1-1/4”	1630*890*1390	69	710
KOE-37VSD-II	3.40 ~7.56	3.37 ~7.49	3.31 ~7.36	/	1-1/4”	1630*890*1390	69	710

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-45-II	9.23	9.14	8.98	7.25	G2	1900*1040*1695	69	771
KOE-45VSD-II	4.15 ~9.23	4.11 ~9.14	4.04 ~8.98	3.26 ~7.25	G2	1900*1040*1695	69	771

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-55	10.3	10.1	8.4	7.6	2”	1750*1200*1900	72	1475
KOE-75	14	12.8	11.8	10.6	2”	1750*1200*1900	75	1480

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-55VSD	4.64 ~10.3	4.55 ~10.1	3.78 ~8.4	3.42 ~7.6	2”	1600*1200*1900	72	1535
KOE-75VSD	6.30 ~14	5.76 ~12.8	5.31 ~11.8	4.77 ~10.6	2”	1600*1200*1900	75	1540

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-55-II	11.41	11.3	11.26	/	2”	2200*1400*1850	69	2350
KOE-55VSD-II	5.13 ~11.41	5.09 ~11.3	5.07 ~11.26	/	2”	2200*1400*1850	69	2350
KOE-75-II	15.62	15.47	15.2	11.9	2”	2200*1400*1850	75	2350
KOE-75VSD-II	7.03 ~15.62	6.96 ~15.47	6.84 ~15.2	5.36 ~11.9	2”	2200*1400*1850	75	2350

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-90	16.4	15.3	13.8	12.4	2”	2050*1500*1850	75	1491
KOE-110	21	20	19	15.3	DN80	2050*1500*1850	78	2250
KOE-90VSD	7.38 ~16.4	6.89 ~15.3	6.21 ~13.8	5.58 ~12.4	2”	2050*1500*1850	75	1650
KOE-110VSD	10.17 ~22.6	9.00 ~20	8.55 ~19	6.89 ~15.3	DN80	2050*1500*1850	78	2410

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-90-II	19.23	19.13	17.33	14.97	DN100	2780*1670*1850	73	2470
KOE-90VSD-II	8.65 ~19.23	8.61 ~19.13	7.80 ~17.33	6.74 ~14.97	DN100	2780*1670*1850	73	2470
KOE-110-II	24	22	21.1	19	DN100	2780*1670*1850	82	3000
KOE-110VSD-II	10.80 ~24	9.90 ~22	9.50 ~21.1	8.55 ~19	DN100	2780*1670*1850	82	3000
KOE-132-II	27	24.8	22.7	21	DN100	2780*1670*1850	83	3200
KOE-132VSD-II	12.15 ~27	11.16 ~24.8	10.22 ~22.7	9.45 ~21	DN100	2780*1670*1850	83	3200
KOE-160-II	35	31.9	27	24	DN100	2780*1670*1850	86	3300
KOE-160VSD-II	15.75 ~35	14.36 ~31.9	12.15 ~27	10.80 ~24	DN100	2780*1670*1850	86	3300

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-132	25.2	23.2	21	18.8	DN80	2780*1670*1850	78	2450
KOE-132VSD	11.34 ~25.2	10.44 ~23.2	9.45 ~21	8.46 ~18.8	DN80	2780*1670*1850	78	2610
KOE-160	29.2	27.9	24.6	21.9	DN80	2780*1670*1850	78	2900
KOE-160VSD	13.14 ~29.2	12.56 ~27.9	11.07 ~24.6	9.86 ~21.9	DN80	2780*1670*1850	78	3220
KOE-185	32.6	30.4	27.6	25.3	DN80	2780*1670*1850	78	3480
KOE-185VSD	14.67 ~32.6	13.68 ~30.4	12.42 ~27.6	11.39 ~25.3	DN80	2780*1670*1850	78	3720

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-185-II	41	35	31.9	26.9	DN100	4600*2100*2270	86	6800
KOE-185VSD-II	18.45 ~41	15.75 ~35	14.36 ~31.9	12.11 ~26.9	DN100	4600*2100*2270	86	6800
KOE-200A-II	45	40.5	34.9	31.7	DN125	4600*2100*2270	85	6840
KOE-200VSD-II	20.25 ~45	18.23 ~40.5	15.71 ~34.9	14.27 ~31.7	DN125	4600*2100*2270	85	6840
KOE-220-II	50.84	45.6	39.6	34.96	DN125	4600*2100*2270	85	6950
KOE-220VSD-II	22.88 ~50.84	20.52 ~45.6	17.82 ~39.6	15.73 ~34.96	DN125	4600*2100*2270	85	6950
KOE-250-II	55	50.9	44.8	40.3	DN125	4600*2100*2270	88	7100
KOE-250VSD-II	24.75 ~55	22.91 ~50.9	20.16 ~44.8	18.14 ~40.3	DN125	4600*2100*2270	88	7100
KOE-200	35.3	33.87	30.3	27.7	DN100	4600*2100*2270	85	4130
KOE-200VSD	15.89 ~35.3	15.24 ~33.87	13.64 ~30.3	12.47 ~27.7	DN100	4600*2100*2270	85	4450
KOE-220	47.5	44.5	38.7	34.2	DN125	4600*2100*2270	85	5020
KOE-220VSD	21.38 ~47.5	20.03 ~44.5	17.42 ~38.7	15.39 ~34.2	DN125	4600*2100*2270	85	5340
KOE-250	50.1	48.1	43.29	37.5	DN125	4600*2100*2270	85	5020
KOE-250VSD	22.55 ~50.1	21.65 ~48.1	19.48 ~43.29	16.88 ~37.5	DN125	4600*2100*2270	85	5340

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-315	65	58.1	52.29	45.2	DN150	4600*2100*2400	85	7760
kOE-315VSD	29.25 ~65	26.15 ~58.1	23.53 ~52.29	20.34 ~45.2	DN150	4600*2100*2400	85	8160
KOE-355	68	64	57	51	DN125	4600*2100*2400	88	10200
KOE-355VSD	30.60 ~68	28.80 ~64	25.65 ~57	22.95 ~51	DN125	4600*2100*2400	88	10200

Model	Air delivery(m³/min)				Outlet connection	Dimension	Noise	Weight
	7.5Bar	8.5Bar	10Bar	13Bar	BSPT	mm	d(BA)	Kg
KOE-315-II	63	62.1	54	49	DN125	4800*2300*2420	88	10200
KOE-315VSD-II	28.35 ~63	27.95 ~62.1	24.30 ~54	22.05 ~49	DN125	4800*2300*2420	88	10200
KOE-355-II	70.35	66.05	60.05	53.21	DN125	4800*2300*2420	88	10500
KOE-355VSD-II	31.66 ~70.35	29.72 ~66.05	27.02 ~60.05	23.94 ~53.21	DN125	4800*2300*2420	88	10500