**VORTEX** is a leading provider of compressed air equipments of all types when ever or where ever you need in the world.

**Company Introduction**

Ankara Hamak Makina San. Tic. A.S is founded in 1961 in Maltepe/Ankara. Until year 2000 Ankara Hamak increased its market potential, quality and stability to produce reliable products in the market. In year 1998 Ankara Hamak registered its trademark Vortex Compressor as its brand name. From that year to date Vortex's experienced and engineered structure provides extensive range of compressed air solutions to the global market.

From the beginning of 2007, Vortex moved its new facility to Kazan/Ankara with totally 3500 sqm closed area. Vortex Compressor's main branch is Rotary Screw Air Compressors also Vortex is producing wide range of rotary screw and reciprocating compressors and other compressed air treatment products. Vortex knows the vitality of the pressurized air requirements in the applications and works to provide these vital units under its reliable brand name. Today, Global market demands that companies stay competitive with “Best Practice” solutions. Vortex Compressor provides the best price and quality, stability, efficiency ratio to keep up its sale performance in the market.

**Quality Policy**

Vortex Compressor is one of the leading screw compressor manufacturers in Europe. Vortex is supplying most of all its equipments from Globally Famous Brands to keep its maximum quality. Vortex products are being sold in 22 World Countries at the end of year 2007. Most of these are European countries. Vortex is aware of the importance of quality and planning. Vortex Compressor manufactures its products according to CE and GOST-R regulations. In order to certify its quality Vortex Compressor certified ISO9001:2000 by BVQI.

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Vortex’s new Kazan Facilities covers an area of 5000 m² with 3500 m² closed area.

- Extensive range of Vortex Products are being manufactured in this new Hi-tech plant
- 3500 m² production area controlled with latest technology productions systems and production units revised to hi-tech machines and equipments in this new plant
- New Management and Organizational Systems integration is finished with new Kazan Facilities

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Higher Efficiency & More Savings

Vortex Compressor is designed after many experiences for years in compressor market. The main purpose while designing Vortex Compressor was “easy maintenance” which means that compressor will enable everyone to reach each component easily.

Vortex’s design with full of engineering advantages allows lower prices and higher performances. Quality, balance, reliability and low prices are basic determining factors of Vortex that you can find at your first glance which perfectly fits to your and market demands.

Maintenance Is No More Complex

According to operating principle of Rotary screw compressor, they need periodic maintenance to carry on its performance for years. From the first day’s of Vortex Compressor’s fundamental was manufacturing easy serviceable compressors. This allows no professionalism or no additional staff for servicing the basic components for the compressors. The compressors manufactured around year 2000 were having complexity and other problems. Vortex solved this with new design basics allowing less service time and higher efficiency at different medium conditions. Vortex’s this vision became solid philosophy for all Vortex Products and created a different view at Rotary Screw Market that allowed all Vortex products to be exported all around the world. These advantages enables all Vortex Compressor Products to be sold around the World, providing companies high efficient, reliable and easy products.

Proffessional Quality High Standards

It is powerful

Vortex Electric Motors are TEFC / IP 54 with increased performance and reliability. The belt drives or the direct drives are optimized according to best performance air flow rates.

It is Reliable

You will always satisfy with compact design. The components are selected to run at optimum duty points.

Stable System Pressure

Very sensitive sensors and equipments enable Vortex Compressors to provide stable pressures to your systems. Working at levels of mbar, between idle or full load phases always Vortex will carry out the desired pressure serving your usage. (This can be obtained by NEXUS 81 panels)

Enhanced Product Consistency

All of the Vortex Products are designed and manufactured with the highest consistency. If you know how to deal with one Vortex Compressor then you can deal with all Vortex Products.

It saves your energy and money

Frequency drive, high efficiency electric motor, pressure loss avoiding valve blocks and compact systems enables you the maximum efficiency.

Improved System Performance

The new Vortex design will increase your corporation’s performance. The new technology screw rotors are at maximum efficiency.

Robust Engineered Design

Vortex Compressor, are designed to work in different circumstances. Standard Vortex Compressor’s duty points are described in data sheets. Regarding to your specifications products can be modified.
ERS Series 5.5 - 132
With V-Belt Drive

Economic Rotary Screw Solution

Vortex ERS series is designed for low cost solutions to the industry. Elegant design and top performance ensures this series to be number one solution to companies’ compressed air systems. ERS series with V-belt drive range is from 5.5 kW to 132 kW allowing 7.5-13 bar pressure discharge and supplying flow rate from 0.42 to 25 m³/min.

High Standard, Low Costs

Vortex uses best parts to form a substantially high performance and long term reliable products for the companies. Solutions are brought according to needs. ERS series is a cost effective and low operating costed solution for the industries.

Vortex ERS series with V-Belt applications lets easy maintenance and low maintenance cost for the Industry.

High Precision Filtering & Separation

Up to 75 kW Vortex Compressors uses spin on high efficiency Separator equipments. To ensure highest quality and highest precision at separation of oil and air in these ranges.

Lower Noise
Spin-On filters
Special Belt Tensioning System
7-13 bar discharge pressure
24 hrs continues operation
Compact Design
Fireproof, rustproof, soundproof cabinet
Non-Vibrated Operation
Full protection
Low Energy Consumption
Optional: 60 Hz electric motor
Optional: Soft Start
Optional: Exproof Cabinet

ERS Series 132 - 400
With Direct Drive

Direct couple: (Without transmission loss, Low rotational speeds provide high performance and high power savings, significantly less maintenance duty.)
Motor Properties: (High efficiency EFF2 standards electric motor, strong for harsh areas to last long periods)
Air-ends: (World wide quality screws by global manufacturers’, With bigger rotors which let low speed, quiet operation and power consumption, longer maintenance periods )

All Vortex products offer cost effective solutions with lower operating costs.

Vortex Compressors with top quality equipped products will work at high efficiency, satisfying continues reliability. Every single Vortex Compressor is manufactured diligently and delivered to you with maximum care. Also first starting and other technical supports are provided you with Vortex’s expertise and customer satisfaction visioned assistance.

To achieve maximum efficiency and sustainable performance, compressors and air treatment units should be chosen wisely and integrated into your system with an expert’s assistance.
VSD Series Gives What Exactly You Need

A VSD Compressor operates by varying air compression element speed in response to changes in detected air system pressure in order to maintain an exact and constant targeted pressure level. As air system demand falls, and more air is delivered into the air system than is being used, system pressure will begin to rise-the VSD Compressor will reduce speed, and hence output, to maintain the Target Pressure level. An increase in system demand, above that which is being produced, will cause system pressure to begin fall the VSD Compressor will increase speed and hence output, to maintain the Target Pressure level.

VORTEX Energy Efficient Package Offers the Following Advantages:

- Energy Save up to 25-35%
- No Compression higher than necessary
- No idle running phases
- Soft start eliminates peak start up current
- No air relief when compression is at max. pressure no loss of energy
- Lower maintenance costs and longer service life

Vortex VSD series compressors are exceptionally efficient variable-speed rotary screw compressors. Requires minimal maintenance. Larger models from the 132kW upwards are equipped with the speed-controlled 1:1 direct drive. Each VSD compressor model is capable of 100 percent duty cycles without any increase in maintenance requirement.

Fluctuating Demand and High Waste Energy

Controlled Costs with VSD

Operating Procedure of Standard Rotaryscrew Compressors

Standard Rotary screw compressors working with a full load, no load control operate between two set pressure points. When maximum pressure is reached, the compressor goes off load. During periods of medium to low air demand, the no load power consumption can be excessive wasting large amounts of energy.

Advantages of VSD Series

Because there is no unnecessary power generated, Vortex VSD can reduce energy costs by 35% or more. Lifecycle costs of the compressor can be reduced by an average of 25%. In general, the extra cost of a VSD compressor compared to a fixed speed one can be earned back after just one to two years.
Analog Control

Vortex ERS series from 5.5 to 37 kW uses Analog Control Panels to bring the prices more reasonable for our customers. As there is no limitation at Vortex for compressed air systems, you can still select PLC control panel as an option.

S1 Means Full Control Over Your Compressor

A Nexus PLC user Interface is a proven high quality easy panel for every user. In Vortex ERS series starting from 37 kW, Nexus S1 is Standard equipped. Nexus S1 is an ideal choice to control your Vortex Compressor with sophisticated control options. You can configure nearly all compressor options from Nexus S1. When you have more than one compressor or spare compressors in your system then your choice should be Nexus S1 with modular package system.

Get Full Control In Your Hands

In your system pressure demand is determined by the air management system and the pressure is adjusted to its lowest value.

Installing the air management system is so simple that you do not have to deal with so many cables. By only one connection the entire compressor system can be controlled.

Regardless of your compressed air system size air management system is regulated properly without facing any trouble.

Feel the Comfort of Full Control

Nexus Air manager will regulate the air supplying according to your air demand than the compressed air will be supplied with the lowest cost available at high compressed air needed industry. It is so easy to integrate Vortex Nexus Air Manager with your system, you are going to have no cable complexity and other connection problems. Each compressor can be connected to your LAN computer network and controlled by nexus air manager. Nexus air manager applications is number one solution for multi compressor using systems.

Multi Compressors, One Terminal, One Solution!

NEXUS Air Manager is compatible to connect computer or other I/O devices to check and manage all the air systems fully from home, telephone or from one main terminal.

NEXUS S1

Nexus S1 compressor controller is a robust designed PC-based industrial computer with a real-time operating system and update capability. When compressor is operating every option can be seen at a glance.

Also Connections between Nexus series are possible with Nexus Air Manager which enables monitoring and full control over your compressors.
Vortex Refrigerated Type Compressed Air Dryers

Vortex refrigerated air dryers are engineered to provide maximum energy efficiency and serious life. Moisture and contaminants are efficiently separated from the compressed air stream and automatically discharged from the dryer. Our non-cycling dryers include built-in-Diaxas features that make them the logical choice for many refrigerated air dryer applications.

- Energy savings up to 75% with the aid of compressor
- Continuous dewpoint performance at 0-100% capacity
- Similar and compact design with the most demanding services
- Low pressure drop and high efficiency heat transfer
- Reliable and silent operation
- Robust components for long service life

<table>
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<th>Conditioned Air</th>
<th>Power</th>
<th>Compress.</th>
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*All models are available with a 316L or 304SS housing. Please refer to the product manual for details.

Vortex Absorption Type Compressed Air Dryers

Vortex absorption dryer is energy efficient in every aspect. The design and quality ensure that Vortex absorption dryers operate efficiently to provide dependable low-pressure dew point performance at continuous load. The Vortex Absorption dryer has been designed for high drying efficiency at the lowest energy cost. The desiccant is also waterproof and mechanically stable, which makes it particularly suitable for long periods of operation. These dual-tower regenerative desiccant dryers are an economical and reliable way to dry compressed air to dew points below the freezing point of water to reduce the moisture content of compressed air for use in critical process applications. Some of the features of Vortex absorption dryers are as follows:

- Designed for consistent-pressure dew points
- Eliminate water and freeze-up in low ambient
- Delivered completely assembled, piped and wired, with a full charge of activated alumina desiccant
- Only hook-up of utilities is needed for operation
- Includes structural steel frame, complete with floor stand

Pre-filtration
The moisture-laden compressed air passes through the pre-filters, where moisture load is reduced through condensation. Condensates removed through the drain valve ADV1. All the oil filter oil vapours are removed completely, and a small level of water condensates purged through the valve ADG1. Compressed air is then passed through the 3-way valve into the Tower

Drying
The Towers are filled with Activated Alumina as desiccant (Activated Alumina as available on option). When air passes through Tower 1 which consists of "DRY" Desiccant, it gets completely dried and passes through check valve and after filter. At the after filter, Desiccant lines are removed. Therefore, dry compressed air passes out at the outlet.

Regeneration
Regeneration takes place in 2 stages
- 1) De-pressurisation
- 2) By passing Dry air
- a) Water molecules keep out of the desiccant and appear on themselves. Super Dry purify air passes through the Regeneration Nozzles and the desiccant bed thereby completely carrying away the water molecules.
- 1) Tower 1 gets regenerated and is ready for the next drying cycle.

<table>
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<tr>
<th>Model</th>
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<th>Dimensions</th>
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*Flow rates measured according to ISO 11582-1 and ASME PIPING CODE B31.3.**

**All models are available with a 316L or 304SS housing. Please refer to the product manual for details.
Vortex Air Filters

Choose Your High Standards

Vortex design and manufactures compressed air and gas filtration products for use in almost every industrial environment. Every model of compressed air/gas filters include unique elements which are designed by Vortex to remove solid, liquid, oil vapor or odor. Vortex compressed air/gas filters overcome the corrosion by an electrostatic powder paint is applied to all surfaces to ensure excellent protection. Inner surfaces are painted with a special anticorrosion epoxy paint to ensure maximum corrosion control.

An advance form of borosilicate glass microfibre media ensures strong and durable elements which provides absolute efficiency. In spite of the filtration media combines high dirt holding capabiltiy with high flow capacity, it also supply economical filtration and low energy losses. The strong and light form of Vortex filters and elements extend continuous filter performance and long service life with reducing maintenance time.

P Series: A specially designed 5 micron profiling element. Suitable for use in the majority of applications, that require a filtration to remove solid and liquid particles down to 5 microns.

Y Series: This grade of element should be used when very high quality compressed air is required. It uses the finest glass grade microfibre to reduce oil concentrations to 0.01 micron.

A Series: An activated carbon granule is used to remove odor and oil vapour particles down to 0.005 ppm. These highly efficient elements are designed to be use in applications such as medical food processing.

Vortex Air Receivers

Vortex Air Tanks with CE certifications ready and like other Vortex Products they are reliable and high quality products. Vortex Air Tanks will satisfy your needs with their good standing for years and giving high performance allowing you to trust them all the time.

Vortex Spare Parts: When Quality and Price matters all your compressed air equipments can be derived form Vortex

You can supply all your needs with Vortex spare parts and components.

Vortex’s High Quality and full consistency of the equipments will fit all your compressed air applications. Vortex Engineering and Technical Information will always support you at your applications.

In the professional view of Vortex’s spare parts and other components your job will gain value and quality and your performance will be at top level.

Vortex’s time and value giving opinions and spare parts will effect you too.
Plug and Start Work !!
Vortex’s Compact and Complete package series are designed according to fulfill your workshop needs. Lower noise than excepted standard compressors, higher screw performance output and higher savings.

Advantages
- Full & Easy Control With PLC
- Top Quality Electrical Equipment
- Simple & Simpler Maintenance
- Sound Proof Cabinet
- Oil Level Indicator
- Flawless operation
- Cabin Lightning
- Integrated Air Dryer (MCVD Models)
- Integrated 2nd stage Filter (MCVD Models)
- Wide Range Standard Spare Parts

More powerful more spacesaver
Lower Space requirements allow best working space with maximum air delivery output. Complete system satisfies the maximum efficiency. All the installations are made between the system. Only plug the electric then you have the conditioned air and screw compressor performance output.

Optional
- Inverter Drive
- P and A filters
- Analog Control Panel
- Without Air Tank
- 110 V Electric Motor

Another great solution for your compressed air requirements.

BEST SOLUTION, BEST PARTNER, PLUG and WORK TECHNOLOGY FROM VORTEX with new MCVD DESIGN

Choose your plug and Work Compressor with Vortex
Your choice, Our application Vortex assists you to put on which filter on the compressor on any application. You can get the exact requirements from Vortex Compressors.

Work Space Saver
Space saving technology and designed combined together to fulfill you needs.

Vortex’s Innovative design puts a different style with design features & Quality
Air tank with CE
Premium Quality Vortex Filters
Premium Quality Air End
Engineered Design

Easy to connect
No need for additional Compressor Room put it directly in your work place

Factory build system installation
Air Tank, 2nd stage filter, Air Dryer and Compressor connections are installed and integrated in the system. You only need to connect your air line to the compressor and go.

Technical Specifications

<table>
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<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Capacity kW</th>
<th>kW</th>
<th>Current@440V</th>
<th>Weight kg</th>
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</table>

* With performance measured according to ISO 1217, 8113, Annex C-1996
**Noise level measured according to Vortex instruction (VNTS02.2015 code label 3.4.B5)
Reference condition: Ambient air density 1.225 (m³/kg), Latitude 20° N, Sea level
Vortex Advanced Spare Part System
Shows You the Right Way

Advanced Spare Part System is a Normal Cataloging, Stocking and Grouping System which helps your organization to learn the vortex spare part model immediately which you and Vortex can gain time and money. Every part is defined and stocked according to stock system of vortex. Also you will receive the parts in boxes according to your maintenance requires or your demanded extra parts. Let Vortex to increase your organizations revenue. The spare parts are ready for your orders. They are checked again to avoid any mistake which means money and time. We know the importance of the compressed air for you. Let us to deal all your compressed air requirements by our professionals. Organized Vortex Structure will show you the difference.

With Vortex Spare Part System

- You will gain time and money
- You don’t need to be professional to maintain a Vortex Product

Standart Maintenance System

1. Maintenance Kit Degree 1
2. Maintenance Kit Degree 2
3. Maintenance Kit Degree 3
4. Maintenance Kit Degree 4
5. Standard Order Maintenance

Let Vortex Compressor to add value to your organization

Vortex genuine spare parts are put in the regular maintenance kits which are easy for delivery, storing and maintaining your products. You can realize the Organized Vortex Structure after you receive a Vortex Product.

Vortex Full Technical Support

Do not hesitate to take professional Support from Vortex Air Systems. Vortex is dedicated to supply full support to its customers.

Best Air Supply according your needs Optimizing your compressed air system is very important for energy savings. Firstly calculating your system needs and then choosing the best system will reduce your costs. The pressure you need the system you get.

Customer Satisfaction

In any company pause in production harms the company’s reliability, we are aware of this subject and so our service specialists are always ready to give you the best quality help where or when you need.

Best Quality Spare Parts

We always advice using genuine spare parts for your compressors to sustain long term operation without any failure.

Reliability In your Applications

Compressed air system needs to be designed and installed regarding to applications’ air consumption, operating conditions and type of application.

Three units of ERS15 – 15 kW compressors installation is shown on the left picture. Vortex Engineers decided to assemble three 15 kW compressor instead of one 45 kW to enable best solution regarding to the application.

Vortex Compressors is always ready to support its global customers in selecting the right compressors and in designing compressor room and assisting them for private projects.

Vortex Full Revision

With Vortex Full Revision you can revision your system by yourself or by your dealer located in your country. To revision your compressor Vortex Supplies needed documentation and information and all parts to you. A revision is always needed for sustaining your compressors performance.

Vortex Full Technical Support

In compressor applications in the knowledg of urgent technical supports vitality. Vortex supplies full technical support continuously also involves assistance, consultancy and trainings. Vortex always ensures its quality with its after-sale performances and reliability.

Vortex Guarantee Extension

With Vortex’s annual contracts, Vortex products guarantee period can be extended and your Vortex product will be maintained and performance controls on going to be checked in periods by Vortex service staff according to contracts terms to ensure maximum product performance and lower your loads for responsibility of your Vortex products after expired guarantee periods.
Vortex Compressor's development program involves the 3D and 2D drawings of each product in Vortex's Product Lists. The drawings allow interactive design changes with the manufacturing and engineering departments and allow detailed information about the compressors.

For Advanced Spare Part system and stock following and reorganization these drawings are vital for a Compressor Manufacturer.
### Technical Specifications ERS 5.5 - 400

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<thead>
<tr>
<th>Model</th>
<th>Vacuum Power</th>
<th>Dimensions W x L x H mm</th>
<th>Weight kg</th>
<th>Noise dB(A)**</th>
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### Technical Specifications VSD 5.5 - 400

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** Note: performance measured according to ISO 5801, 5813, AENI, CEN 7091.

** Note: noise levels not exceeding 85 dB(A) (A-weighted) in accordance with 2018/841/EC.