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VORTEX
COMPRESSOR

Ankara Hamak Makina Sanayi ve Ticaret A.Ş.
Turgut Özal Bulv. 29.Sokak No:1 Sanayi Bölgesi Kazan 06980 Ankara/ TURKEY
Tel: +90 312 814 45 77 (pbx) Fax: +90 312 814 45 11
E-mail: info@vortexcompressor.com
Visit Our Web Site For More Information: www.vortexcompressor.com

ISO 9001 BUREAU VERITAS Certification

VORTEX
COMPRESSOR

rotaryscrewcompressors
airdryers
airfilters

rotaryscrewcompressors

VORTEX COMPRESSOR

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.Ş is founded in 1991 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 2006. 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

Vortex's new Kazan Facilities covers an area of 6000 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 revisioned to hi-tech machines and equipments in this new plant
- New Management and Organizational Systems integration is finished with new Kazan Facilities

CONTENTS

ISO 9001 BUREAU VERITAS Certification

Higher Efficiency & More Savings

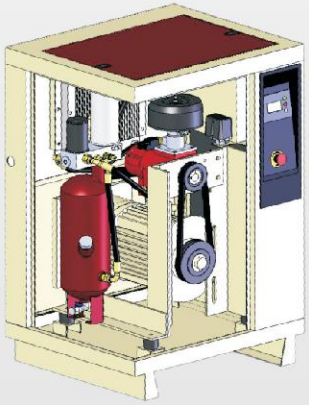
Vortex Compressor is designed after many experiences for years in compressor market. The main purpose while designing Vortex Compressor was **"easy maintenance"** which means that compressor will enable everyone to reach each component easily.

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

Acording 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 proffessionality 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 S1 panels)

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.

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.

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

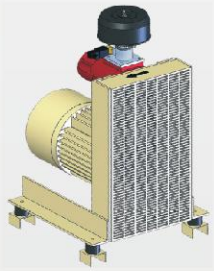
Vortex ERS serie is designed for low cost solutions to the industry. Elegant design and top performance enables this series to be number one solution to companies' compressed air systems.
ERS series with V-Belt drive range is from 5.5 kW to 132 kW allowing 7.5-13 bar pressure discharge and supplying 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 maintenancing and low maintenance cost for the industry.



- 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

High Precision Filtering & Seperation

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

ERS Series 132 - 400 With Direct Drive

All Vortex Products offer cost effective solutions with lower operating costs

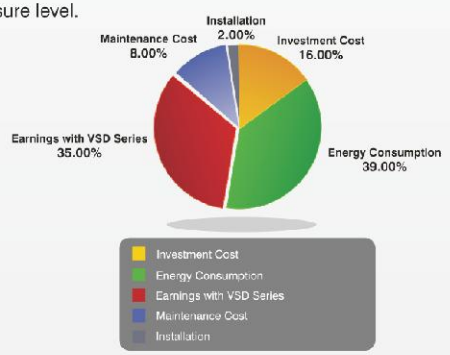
- **Direct couple;** (Without transmission loss, Low rotational speeds provide high performance and high power savings, significantly less maintenance duty)
- **Motor Properties;** (High efficiency EFF2 standards electric motor, strong for harsh areas to last long periods)
- **Air-ends;** (World wide quality screws by global manufacturers', With bigger rotors which let low speed, quiet operation and power consumption, longer maintenance periods)
- NEXUS S1 equipped on the all range of direct drive compressors (132 kW to 400kW). Allows full control at these ranges.

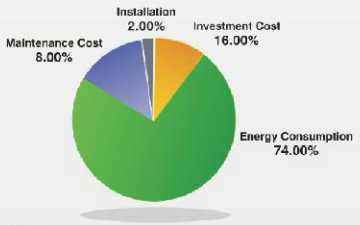
Vortex Compressors with top quality equipped products will work at high efficiency, satisfying continues reliability.
Every single Vortex Compressor is manufactured diligintly and delivered to you with maximum care. Also first starting and other technical supports are provided you with Vortex's expertise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





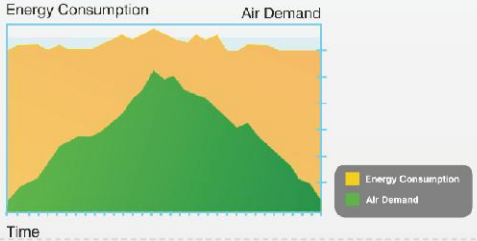
Vortex's special design, containing in its own separately cooled cabinet enables outstanding performance even the ambient temperatures are up to +45 °C Simplity brings you Efficiency and Easier Maintenance Engineered designed Vortex Frequency Inverter cabinets are designed to allow perfect air circulation in its module and allows Vortex VSD series to operate seamlessly

VORTEX Energy Efficient Package Offers the Following Advantages:

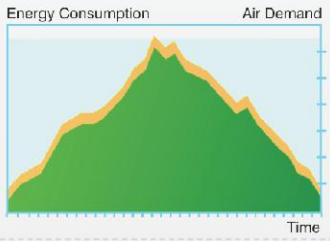
- Energy Save up to 25-35%
- No Compression higher than necessary
- No idle running phases
- Soft start eliminates peak start up current
- No air relied when compression is at max. pressure no loss of energy
- Lower maintenance costs and longer service life

Vortex VSD series compressors are exceptionally efficient variable-speed rotary screw compressors. Needs 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 Standart Rotaryscrew Compressors

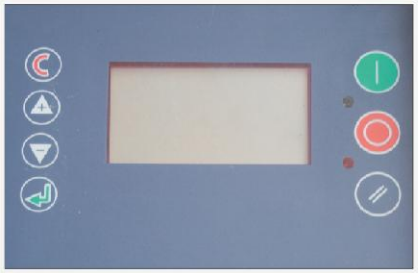
Standart Rotary screw compressors working with a full load, no load control operate between two set pressure points. When maximum pressure is reached the compressor goes off load. During periods of medium to low air demand, the no load power consumption can be excessive wasting large amounts of energy.

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.



NEXUS 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 than your choice should be NEXUS S1 with modular package system.

VORTEX 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.

NEXUS 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 compression system can be controlled.

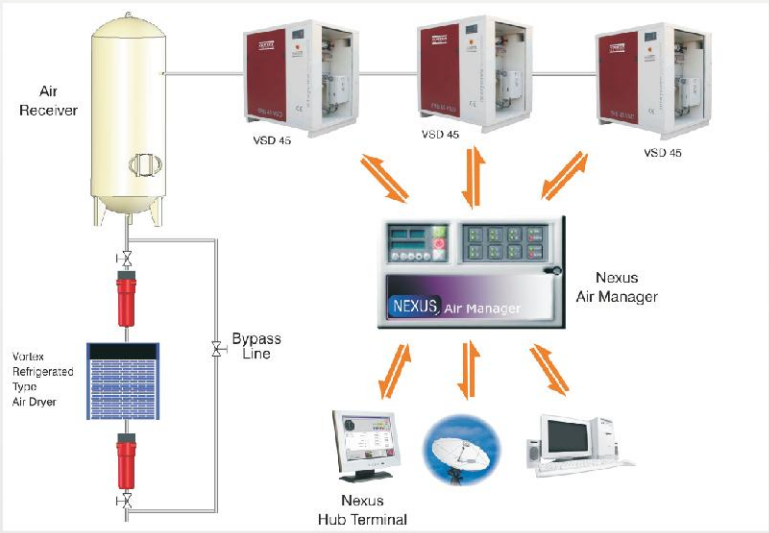
Regardless of your compressed air system size air management system is regulated properly without facing any trouble.

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/0 devices to check and manage all the air systems fully from home, telephone or from one main terminal.



Vortex Refrigerated Type Compressed Air Dryers

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

Advantages

- Energy savings up to %53 with the aid of economiser
  Consistent dewpoint performance at 0-100% capacity
- Smaller and compact design with the mono-block heat exchangers
- Low pressure drop and high efficiency heat transfer
- Reliable and silent operation
- Reliable components for long service life

Model	Flow Rate* m³/min	cfm	l/s	Condenser Air Flow m³/h	Power kW Cons.	Diss.	Connection** BSP	Noise*** dB(A)	ΔP mbar	Dimensions mm H	W	L	EV	EH	SV	SH	Weight kg	Drain
VRT 15	0,183	6,46	3,05	100,00	0,15	0,5	1/2"	52	0,01	338	502	263	253	178	315	104	25	1
VRT 20	0,284	10,03	4,73	100,00	0,17	0,5	1/2"	53	0,01	338	502	263	253	178	315	104	25	1
VRT 30	0,48	16,95	8,00	370,00	0,20	0,6	1/2"	52	0,02	338	502	263	253	178	315	104	25	1
VRT 50	0,732	25,85	12,20	340,00	0,22	0,7	1/2"	53	0,03	338	502	263	253	178	315	104	30	1
VRT 70	1,14	40,26	19,00	370,00	0,22	0,5	3/4"	52	0,02	475	677	410	352	234	435	148	43	1
VRT 100	1,62	57,21	27,00	340,00	0,30	1,0	3/4"	51	0,05	475	677	410	352	234	435	148	47	1
VRT 130	2,22	78,40	37,00	410,00	0,50	1,6	3/4"	53	0,06	475	677	410	352	234	435	148	50	1
VRT 160	2,58	91,11	43,00	800,00	0,60	1,9	3/4"	58	0,08	475	677	410	352	234	435	148	55	1
VRT 200	3,60	127,13	60,00	980,00	0,70	2,3	11/4"	59	0,09	600	700	390	442	309	547	204	66	1
VRT 270	4,50	158,92	75,00	980,00	1,00	3,4	11/4"	63	0,14	600	700	390	442	309	547	204	75	1
VRT 330	5,40	190,70	90,00	980,00	1,20	4,3	11/4"	63	0,18	600	700	390	442	309	547	204	80	1

Voltage is 230 V-1-50 Hz – Bigger Models than VRT 270 400V-3-50-Hz is optional
*Unit performance measured according to ISO 1217, Ed.3, Annex C-1996
**Connections are according to British Standard Pipe
*** Noise level measured according to Pneurop/Cagi PNSNTC2.2 test code; tolerance 3 dB(A)
Reference conditions: Absolute inlet pressure 1 bar (14.5 psi), intake air temperature 20°C (68°F).

Model	Flow Rate* m³/min	cfm	l/s	Condenser Air Flow m³/h	Condenser Water Flow m³/h	Power kW Cons.	Diss.	Connection** BSP	Dimensions mm H	W	L	EV	EH	SV	SH	Weight kg	Drain
VRT 430	7,2	254,27	120,00	980		1,0	3,4	11/2"	815	555	672	726	435	435	572	120	1
VRT 500	8,4	296,64	140,00	980		1,2	4,3	2"	1040	700	752	942	600	600	652	150	1
VRT 630	10,5	370,80	175,00	980		1,2	4,3	2"	1040	700	752	905	600	600	652	170	1
VRT 870	14,4	508,53	240,00	2250		1,6	6,5	2"	1040	700	752	905	600	600	652	195	1
VRT 950	15,6	550,91	260,00	2250		1,6	6,5	3"	1320	700	800	1027	319	1232	97	250	2
VRT 1100	18,3	646,26	305,00	2250		2,1	8,5	3"	1320	700	800	1027	319	1232	97	280	2
VRT 1300	21,0	741,61	350,00	2250		2,1	8,5	3"	1320	700	800	1027	319	1232	97	350	2
VRT 1500	24,0	847,55	400,00	5000		2,7	8,5	3"	1325	1120	1000	1010	350	1215	128	450	2
VRT 1700	28,5	1006,47	475,00	4800	0,7	3,4	13,6	3"	1325	1120	1000	1010	350	1215	128	460	2
VRT 2100	34,8	1228,95	580,00	7000	1,0	4,3	13,6	3"	1325	1120	1000	1010	350	1215	128	500	2
VRT 2300	38,4	1356,08	640,00	7000	1,0	4,7	15,4	3"	1325	1120	1000	1010	350	1215	128	525	2
VRT 2700	44,4	1567,97	740,00	6600	1,2	5,2	18,0	4"	1325	1120	1400	695	970	1196	970	550	2
VRT 3200	52,2	1843,43	870,00	6000	1,6	6,1	20,6	4"	1325	1120	1400	695	970	1196	970	600	2
VRT 4100	67,8	2394,33	1130,00	7600	2,0	7,2	27,5	4"	1800	1120	1400	695	970	1196	970	770	2
VRT 4700	78,0	2754,54	1300,00	16600	4,5	8,4	30,3	DN150	1800	1120	1800	695	970	1196	970	820	2

Voltage is 400V-3-50-Hz
*Unit performance measured according to ISO 1217, Ed.3, Annex C 1996
**Connections are according to British Standard Pipe
*** Noise level measured according to Pneurop/Cagi PNSNTC2.2 test code; tolerance 3 dB(A)
Reference conditions: Absolute inlet pressure 1 bar (14.5 psi), intake air temperature 20°C (68°F).

Vortex Absorbtion Type Compressed Air Dryers

Vortex absorbtion dryer is energy efficient in every aspect. The design and quality ensure that Vortex absorbtion dryers operate efficiently to provide dependable low-pressure dew point performance at continuous load. The Vortex absorbtion 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 or 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 ambients
- Delivered completely assembled, piped and wired, with a full charge of activated alumina desiccant
- Only hook-up of utilities is needed for operation
- Include structural steel frame, complete with floor stand

Pre-filteration

The moisture laden compressed air passes through the pre-filter, here moisture load is reduced through coalescence. Condensationis removed through the drain valve ADV1. At the oil filter oil vapours are removed completely, small level of water condensationis purged through the valve ADV2. Compressed air is then passed through a 3-way valve into the Tower.

Drying

The Towers are filled with Activated Alumina as desiccant (Molecular sieve available as 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 fines are removed. Therefore dry compressed air passesout at the outlet.

Regeneration

Regeneration takes place in 2 stages
a) De-pressurisation
b) By passing Dry air.
c) Water molecules seep out of the desiccant and appear on thesurface. "Super Dry" purge air passes through the Regeneration"Nozzle" and the desiccant bed thereby completely carrying away the water molecules. Tower II gets regenerated and is ready for the next drying cycle.

Model	Flow Rate m³/min	cfm	l/sec	Connection BSP	Dimensions mm W	L	H	Weight KG
ADP 70	1,67	59	27,84	1/2"	500	340	1380	100
ADP 100	2,07	73	34,45	3/4"	500	340	1555	145
ADP 150	2,89	102	48,14	3/4"	500	340	1555	180
ADP 200	3,68	130	61,35	3/4"	500	340	1680	220
ADP 250	5,32	188	88,73	3/4"	600	340	1730	255
ADP 400	6,94	245	115,63	1"	600	340	1900	365
ADP 500	8,55	302	142,53	11/2" NB	950	840	1150	435
ADP 600	10,17	359	169,43	11/2" NB	950	840	1550	515
ADP 750	13,42	474	223,70	11/2" NB	1050	840	1850	665
ADP 1000	16,65	588	277,51	2" NB	1050	940	1850	765
ADP 1500	24,81	876	413,43	2 1/2" NB	1350	1040	2240	1080
ADP 2000	32,85	1160	547,46	2 1/2" NB	—	1040	—	1390

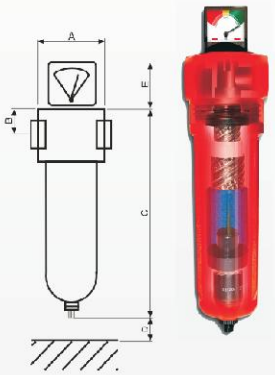
*Unit performance measured according to ISO 1217, Ed.3, Annex C-1996
**Connections are according to British Standard Pipe

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 ensume excellent protection. Inner surfaces are painted by 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 capability with high flow capacity it also supply economic filtration and low energy loses. The strong and light form of Vortex filters and elements extend continuous filter performance and long service life with reducing maintenance time.



Filter Model	Pipe Size BSP	Flow Rate m³/h	Flow Rate scfm	Element Model	Housing Dimensions (mm) A	B	C	D	E
G24	1/4"	24	14	M24	72	19	193	100	22
G48	3/8"	48	29	M48	72	19	193	100	22
G25	1/4"	25	15	M25	96	20	237	110	22
G50	3/8"	50	30	M50	96	20	237	110	22
G100	1/2"	100	58	M100	96	20	237	150	22
G150	3/4"	150	88	M150	117	34	375	190	56
G200	3/4"	200	117	M200	117	34	375	250	56
G250	1"	250	147	M250	117	34	465	300	56
G300	1 1/4"	300	176	M300	117	34	465	350	56
G500	1 1/4"	500	294	M500	117	34	530	380	56
G600	1 1/2"	600	353	M600	117	34	530	425	56
G851	2"	851	500	M851	170	64	722	480	56
G1210	2"	1210	712	M1210	170	64	722	550	56
G1510	2 1/2"	1510	888	M1510	235	72	760	430	56
G1810	3"	1810	1065	M1810	235	72	760	550	56
G2210	3"	2210	1300	M2210	235	72	760	600	56
G3600	4"	3600	2118	M1200x3	360	126	840	650	56

All filters are in conformity with the Pressure Equipment Directive (97/23/EC).
Pop-up indicators supplied as standard to models G24, G48, G25, G50 and G100. Diff. Pressure Gauge type pressure indicators are fitted to models G150 to G2210 as standard. Also gauge type indicator can be fitted to G24, G48, G25, G50 and G100.

P Series: A specially designed 5 micron prefiltering 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 grade glass 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 0,003 ppm. These highly efficient elements are designed to use in applications such as medical food processing.

Specification	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	P	X	Y	A
Partical Removal (Micron)	5	1	0,01	0,01
Max. Oil carryover at 21 C (mg/m)	5	0,5	0,01	0,003
Max. Working Tempreature (C)	80	80	80	25
Initial Pressure Loss (mbar)	40	80	100	80
Pressure Loss for Element Change (mbar)	700	700	700	700
Max. Working Pressure (bar.g)	16	16	16	16
Element Colour Code	Green	Blue	Red	Metallic

Correction Table

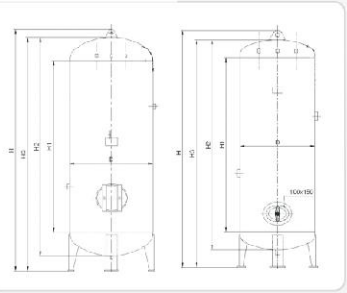
Working Pressure (bar)	1	3	5	7	9	11	13	15	17	20
Working Pressure (psig)	15	44	73	100	131	160	189	218	247	290
Correction Factor	0,5	0,71	0,87	1	1,22	1,22	1,32	1,44	1,57	1,7

For maximum flow rate, multiply flow rate shown in the above table by the correction table corresponding to the working pressure.

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.

Model	Working Pressure (bar)	Volume (l)	Diameter (mm)	Dimensions (mm) H1	H2	H3	H	Manhole Dimensions (mm)
HT 510	10	500	640	1490	1800	1950	2050	100x150
HT 515	15	500	640	1490	1800	1950	2050	100x150
HT 1010	10	1000	850	1450	1990	2200	2300	100x150
HT 1015	15	1000	850	1450	1990	2200	2300	100x150
HT 2010	10	2000	1200	1480	2120	2360	2460	340x440
HT 2015	15	2000	1200	1480	2120	2360	2460	340x440



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 allways support you at your applications.

In the proffessional 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.

NEW!

MCVD SERIES
Mount on Compressors with Air Dryer 2.2 kW to 22 kW (3-30 HP)

Plug and Start Work !!

Vortex's Compact and Complete package series are designed according to fullfil you 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

MCVD 11 mounted on Tank with Air Dryer and 2nd Stage Filter

MCV 11 mounted on Tank (Base model of Mount on Tank Compressors)

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 electricythen you have the conditioned air and screw compresssor performance output.

Optional

Inverter Drive
P and A filters
Analog Control Panel
Without Air Tank
60 Hz Electric Motor

Another great solution for your compressed air requirements.

VORTEX

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 fullfil 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

Model	Maximum Working Pressure	Capacity FAD*			Motor Power		Weight	Noise
	bar	m³/min	cfm	l/sec	kw	HP	kg	dB(A)**
MCVD 2.2	7,5 10	0,34 -	12,03 -	5,66 -	2,2	3	450	70
MCVD 5,5	7,5 10	0,84 0,68	29,71 24,05	14,00 11,33	5,5	7,5	520	70
MCVD 7,5	7,5 10	1,15 0,90	40,67 31,83	19,17 15,00	7,5	10	550	71
MCVD11	7,5 10	1,74 1,41	61,54 49,87	29,00 23,50	11	15	580	73
MCVD 15	7,5 10	2,44 1,99	86,29 70,38	40,67 33,17	15	20	610	73

* **Unit performance** measured according to ISO 1217, Ed.3, Annex C-1996
** **Noise level** measured according to Pneurop/Cagi PNSNTC2.2 test code; tolerance 3 dB(A)
Reference conditions: Absolute inlet pressure 1 bar (14.5 psi), intake air temperature 20°C (68°F)
60 Hz version is available in this model range.

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 proffessionals.Organized Vortex Structure will show you the difference

With Vortex Spare Part System

- You will gain time and money
- You dont need to be proffessional 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 genuie spare parts are put in the regular maintenance kits which are easy for delivery, storing and maintenancing your products. You can realize the Organized Vortex Structure after you receive a Vortex Product.

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 caşculating 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 pauses 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 15kW compressor instead of one 45 kW to enable best solution regarding to the application.

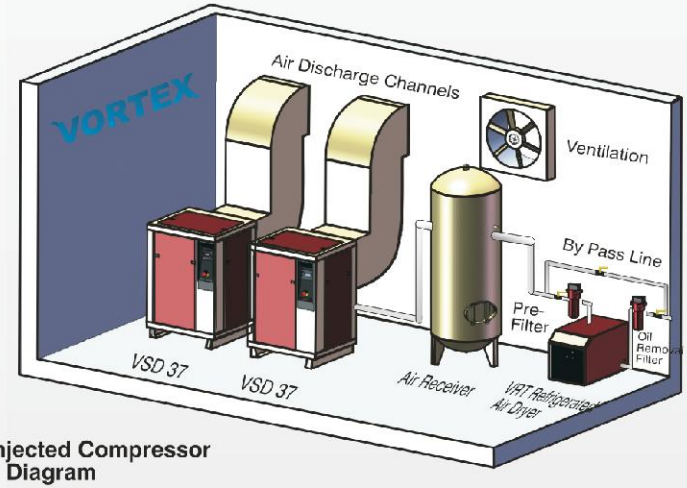
Vortex Compressors is always ready to support its global customers in selecting the right compressors and in designing compressor room and assisting them for private projects.

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

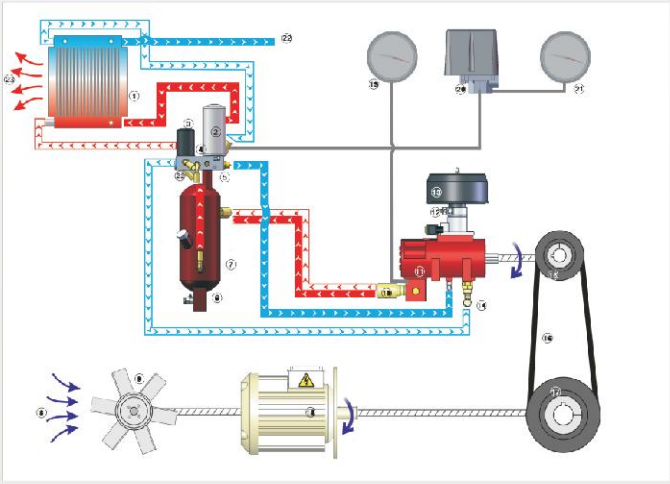
Vortex Full Technical Support
In compressor applications in the knowledge of urgent technical supports vitality. Vortex supplies full technical support continuesly also involves assistance,consultancy and trainings. Vortex always ensures its quality with its after-sale performance and reliability.

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 are 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.

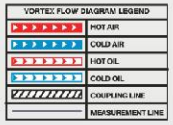
Compressor Room Placement of the Vortex compressor

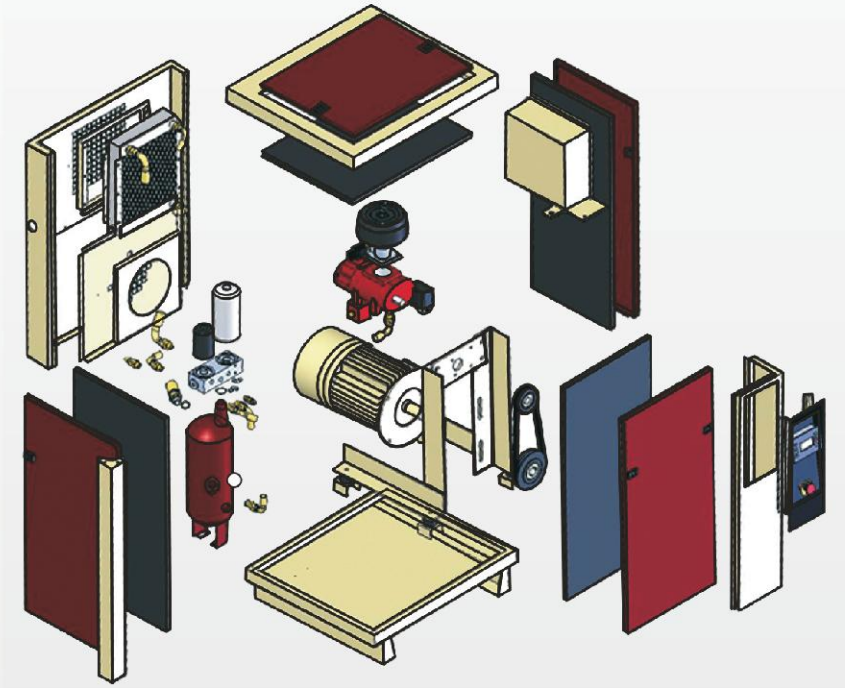


Oil Injected Compressor Flow Diagram



1- Air-Oil Radiator
2- Air/Oil Separator
3- Oil Filter
4- Combination Block
5- Temperature Sensor
6- Oil Tank
7- Oil Level Indicator
8- Air Inlet
9- Axial Fan
10- Air-Oil Outlet
11- Oil-Injected air-end
12- Air Suction Valve
13- Air Filter
14- Oil İnlet
15- Air-end Pulley
16- V-Belt
17- Electric Motor Pulley
18- Electric Motor
19- Temperature Sensor
20- Pressure Sensor
21- Manometer
22- Compressed Air Discharge
23- Hot Air Discharge





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

Model	Maximum Working Pressure	Capacity FAD*			Motor Power		Dimensions W x L x H	Weight	Noise
	bar	m³/min	cfm	l/sec	kw	HP	mm	kg	dB(A)**
ERS 5,5	7,5	0,84	29,71	14,00	5,5	7,5	650 x 750 x 1160	185	70
	10	0,68	24,05	11,33					
	13	0,56	19,81	9,33					
ERS 7,5	7,5	1,15	40,67	19,17	7,5	10	650 x 750 x 1160	195	70
	10	0,90	31,83	15,00					
	13	0,69	24,40	11,50					
ERS 11	7,5	1,74	61,54	29,00	11	15	750 x 820 x 1230	252	71
	10	1,41	49,87	23,50					
	13	1,12	39,61	18,67					
ERS 15	7,5	2,44	86,29	40,67	15	20	750 x 820 x 1230	387	73
	10	1,99	70,38	33,17					
	13	1,58	55,88	26,33					
ERS 18,5	7,5	3,09	109	51,50	18,5	25	850 x 930 x 1390	420	73
	10	2,52	89	42,00					
	13	2,10	74	35,00					
ERS 22	7,5	3,60	127	60,00	22	30	850 x 930 x 1390	480	74
	10	3,00	106	50,00					
	13	2,55	90	42,50					
ERS 30	7,5	5,20	184	86,67	30	40	970 x 980 x 1545	540	74
	10	4,25	150	70,83					
	13	3,60	127	60,00					
ERS 37	7,5	6,20	219	103,33	37	50	970 x 980 x 1545	587	73
	10	5,30	188	88,33					
	13	4,56	161	76,00					
ERS 45	7,5	7,25	257	120,83	45	60	1050 x 1100 x 1590	845	75
	10	6,20	219	103,33					
	13	5,20	184	86,67					
ERS 55	7,5	9,50	336	158,33	55	75	1200 x 1300 x 1690	940	75
	10	7,90	280	131,67					
	13	6,60	234	110,00					
ERS 75	7,5	12,20	432	203,33	75	100	1700 x 1800 x 1840	1350	79
	10	10,10	358	168,33					
	13	8,50	301	141,67					
ERS 90	7,5	15,50	549	258,33	90	125	1700 x 1800 x 1840	1750	82
	10	13,00	460	216,67					
	13	11,30	400	188,33					
ERS 110	7,5	17,70	627	295,00	110	150	1700 x 1800 x 1840	1960	84
	10	15,50	549	258,33					
	13	13,50	478	225,00					
ERS 132	7,5	24,00	850	400,00	132	180	1800 x 2750 x 1940	2150	84
	10	20,60	729	343,33					
	13	17,00	602	283,33					
ERS 160	7,5	28,50	1018	475,00	160	220	2000 x 2500 x 1940	2420	86
	10	24,00	850	400,00					
	13	20,00	714	333,33					
ERS 200	7,5	36,00	1286	600,00	200	270	2750 x 1800 x 1980	3290	88
	10	28,80	1028	480,00					
	13	23,80	840	396,67					
ERS 250	7,5	42,50	1518	708,33	250	340	4000 x 2000 x 2000	4450	88
	10	36,00	1286	600,00					
	13	—	—	—					
ERS 315	7,5	50,80	1814	846,67	315	430	4000 x 2000 x 2000	4800	—
	10	42,60	1521	710,00					
	13	—	—	—					
ERS 400	7,5	63,70	2275	1061,67	400	540	4000 x 2000 x 2000	5200	—
	10	56,10	2003	935,00					
	13	—	—	—					

* **Unit performance** measured according to ISO 1217, Ed.3, Annex C-1996
** **Noise level** measured according to Pneurop/Cagi PN8NTC2.2 test code; tolerance 3 dB(A)
Reference conditions: Absolute inlet pressure 1 bar (14.5 psi), intake air temperature 20°C (68°F).
60 Hz version is available in this model range.

Technical Specifications VSD 5,5 - 400

Model	Maximum Working Pressure	Capacity FAD*						Motor Power		Dimensions W x L x H	Weight	Noise
		m³/min		cfm		l/sec						
	bar	max	min	max	min	max	min	kw	HP	mm	kg	dB(A)**
VSD 5,5	7,5	0,84	0,33	29,71	11	14,00	5,55	5,5	7,5	650 x 900 x 1155	220	68
	10	0,68	0,33	24,05	11	11,33	5,55					
	13	0,56	0,33	19,81	11	9,33	5,55					
VSD 7,5	7,5	1,15	0,60	40,67	21	19,17	10,00	7,5	10	650 x 900 x 1155	240	68
	10	0,90	0,60	31,83	21	15,00	10,00					
	13	0,69	0,60	24,40	21	11,50	10,00					
VSD 11	7,5	1,74	0,80	61,54	28	29,00	13,33	11	15	820 x 920 x 1225	300	70
	10	1,41	0,80	49,87	28	23,50	13,33					
	13	1,12	0,80	39,61	28	18,67	13,33					
VSD 15	7,5	2,44	1,10	86,29	38	40,67	18,33	15	20	820 x 920 x 1225	320	71
	10	1,99	1,10	70,38	38	33,17	18,33					
	13	1,58	1,10	55,88	38	26,33	18,33					
VSD 18,5	7,5	3,09	1,20	109	42	51,50	20,00	18,5	25	930 x 1100 x 1380	470	71
	10	2,52	1,10	89	39	42,00	18,33					
	13	2,10	1,10	74	39	35,00	18,33					
VSD 22	7,5	3,60	1,20	127	42	60,00	20,00	22	30	930 x 1100 x 1380	530	72
	10	3,00	1,20	106	42	50,00	20,00					
	13	2,55	1,20	90	42	42,50	20,00					
VSD 30	7,5	5,20	1,22	184	43	86,67	20,33	30	40	1230 x 1050 x 1550	620	72
	10	4,25	1,21	150	42	70,83	20,17					
	13	3,60	1,21	127	42	60,00	20,17					
VSD 37	7,5	6,20	1,30	219	46	103,33	21,67	37	50	1230 x 1050 x 1550	667	72
	10	5,30	1,29	188	45	88,33	21,50					
	13	4,56	1,28	161	45	76,00	21,33					
VSD 45	7,5	7,25	1,60	257	56	120,83	26,67	45	60	1400 x 1200 x 1590	925	74
	10	6,20	1,40	219	49	103,33	23,33					
	13	5,20	1,30	184	45	86,67	21,67					
VSD 55	7,5	9,50	2,30	336	81	158,33	38,33	55	75	1500 x 1300 x 1700	1010	74
	10	7,90	2,20	280	77	131,67	36,67					
	13	6,60	2,00	234	70	110,00	33,33					
VSD 75	7,5	12,20	2,60	432	91	203,33	43,33	75	100	1700 x 1800 x 1945	1400	79
	10	10,10	2,60	358	91	168,33	43,33					
	13	8,50	2,60	301	91	141,67	43,33					
VSD 90	7,5	15,50	3,00	549	105	258,33	50,00	90	125	1700 x 1800 x 1840	1750	82
	10	13,00	3,00	460	105	216,67	50,00					
	13	11,30	3,00	400	105	188,33	50,00					
VSD 110	7,5	17,70	4,30	625	151	295,00	71,67	110	150	1700 x 1800 x 1840	2040	84
	10	15,50	4,30	548	151	258,33	71,67					
	13	13,50	4,30	478	151	225,00	71,67					
VSD 132	7,5	24,00	5,00	848	176	400,00	83,33	132	180	1800 x 2750 x 1940	2240	84
	10	20,80	5,00	728	176	343,33	83,33					
	13	17,00	5,00	601	176	283,33	83,33					
VSD 160	7,5	28,50	5,00	1007	176	475,00	83,33	160	220	2000 x 2500 x 1940	2550	86
	10	24,00	5,00	848	176	400,00	83,33					
	13	20,00	5,00	707	176	333,33	83,33					
VSD 200	7,5	36,00	7,00	1272	247	600,00	116,67	200	270	2750 x 1800 x 1980	3340	88
	10	28,80	7,00	1017	247	480,00	116,67					
	13	23,80	7,00	841	247	396,67	116,67					
VSD 250	7,5	42,50	7,30	1501	257	708,33	121,67	250	340	4000 x 2000 x 2000	4680	88
	10	36,00	7,30	1272	257	600,00	121,67					
	13	—	—	—	—	—	—					
VSD 315	7,5	50,80	8,00	1794	282	846,67	133,33	315	430	4000 x 2000 x 2000	4840	—
	10	42,50	7,50	1505	264	710,00	125,00					
	13	—	—	—	—	—	—					
VSD 400	7,5	63,70	—	2250	—	1061,67	1061,67	400	540	4000 x 2000 x 2000	5240	—
	10	56,10	—	1981	—	935,00	935,00					
	13	—	—	—	—	—	—					

* **Unit performance** measured according to ISO 1217, Ed.3, Annex C-1996
** **Noise level** measured according to Pneurop/Cagi PN8NTC2.2 test code; tolerance 3 dB(A)
Reference conditions: Absolute inlet pressure 1 bar (14.5 psi), intake air temperature 20°C (68°F).
60 Hz version is available in this model range.