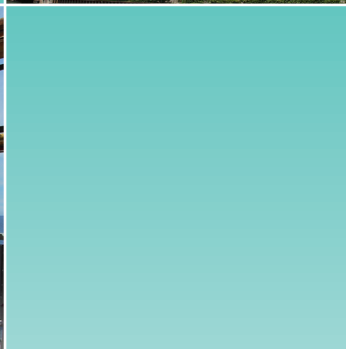
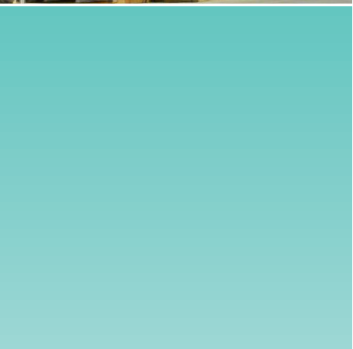


**Air & Gas Compressors, Compressed Air & Gas Treatment systems,  
Gas Generation Packages, Refrigeration & Industrial HVAC Packages**



**Quality, our culture ...**

# About ZAGROS COMPRESSOR IRANIAN



Zagros Compressor Iranian Co. has been founded to make a long-term commitment to provide knowledge based and high quality products and services to meet the customer's needs. Our scope of products is as follows:

- Design and manufacturing of oil injected screw type air and gas compressors
- Design and manufacturing of gas generation and separation plants
- Design and manufacturing of compression refrigeration systems and industrial HVAC systems
- Design and manufacturing of desiccant and refrigeration compressed air and gas dryers
- Supplying oil-free screw air and gas compressors of high quality brands
- Supplying breathing air and industrial high pressure compressors and accessories

**We are able to offer the best and exact solutions and services to such industries:**

- Oil and gas
- Steel and mining industries
- Food industries
- Marine and offshore
- Pharmaceutical and sanitary

**Our key strengths:**

- Having a robust R&D team, we can design and manufacture the highly engineered products and custom-designed equipment to meet your exact needs.
- Our control systems are user friendly and have a flexible design to be integrated with users central control system.
- Our aftermarket service team will be at your site with minimum possible time after your first call and 365 day of year.



# CONTENT

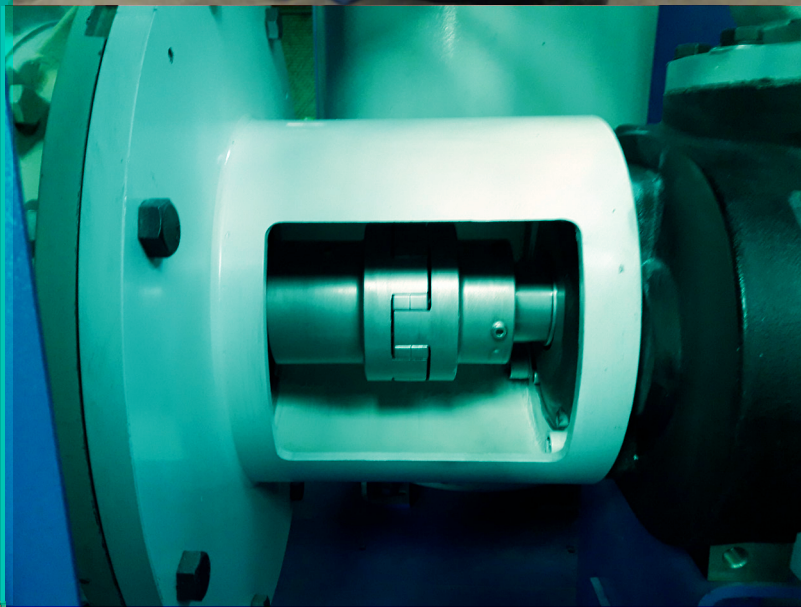
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**ZAGROS**

**COMPRESSOR**

**IRANIAN**



**AIR SCREW COMPRESSORS**

# Air Screw Compressors

ZCI air compressors department offers high quality air screw compressors for different industrial and process applications. Our compressors include commercial and also custom designed and engineered compressors based on special standards such as API619 or other standards. Our commercial screw compressors range can meet the requirement of the most of the industrial applications. Engineered custom designed screw compressors are fully engineered compressors that are designed based on each project specification to meet special requirements such as high ambient temperatures, explosive areas, hydro-driven power sources, low foot print compressors for transportation systems, marine type compressors and special control systems.

## OIL FREE (Single Stage-Double Stage)

Air Flow Range	Working Pressure Range	Electrical Power
4-245 m3/min	2-12 Bar	11 kW-710 kW

## OIL INJECTED (Direct Drive)

Air Flow Range	Working Pressure Range	Electrical Power
2.5-100 m3/min	5-14 Barg	11 kW-600kW

## OIL INJECTED (Belt Drive)

Air Flow Range	Working Pressure Range	Electrical Power
1.05-35 m3/min	5-15 Barg	5.5 kW-200 kW



**RECIPROCATING COMPRESSORS**

**BLOWERS**



**BOOSTERS**



# Reciprocating Compressors & Boosters

Reciprocating air compressors are used in applications which needs to higher pressure than the pressure rang of screw type compressors. Also, reciprocating compressors can be a suitable solution in high temperature and high humidity ambient conditions.

## Applications:

- PET blowing
- Heavy diesel engine starting
- High pressure vessel testing

## RECIPROCATING AIR COMPRESSOR

Air Flow Range	Working Pressure Range	Electrical Power
100-3000 lit/min	25-400 Bar	4.4 kW-110 kW

## BOOSTER

Air Flow Range	Working Pressure Range	Electrical Power
0.3-17 m3/min	7-35 Bar	3 kW-40kW

## Air Blowers & Vacuum Pumps:

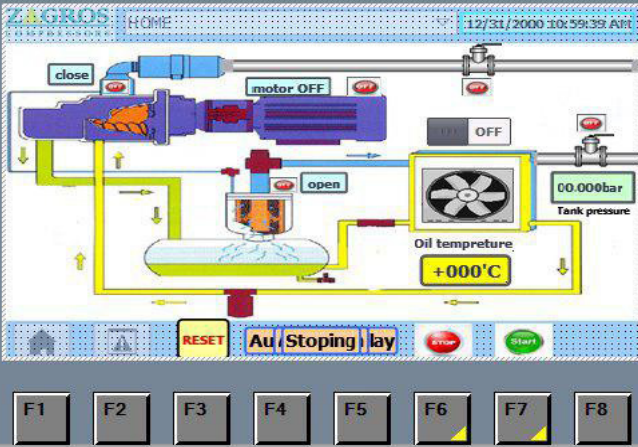
Our roots type air blowers are used when differential pressure of inlet and outlet air is less than 1000 mbar. Our positive displacement vacuum pumps that mainly is used as high vacuum exhausters can reach to 600 mbar vacuum.

## Applications:

- Waste water treatments
- Pneumatic conveying of powders and granules
- Fish farms and aquaculture
- Aeration of special reactors

## BLOWER

Air Flow Range	Working Pressure Range	Electrical Power
0.5-330 m3/min	300-1000 mbar	1.5 kW-500 kW



# GAS SCREW COMPRESSORS

for PROCESS GAS & INDUSTRIAL GASES





# Process and Industrial Gases Compression Systems:

## Gas Screw Compressors:

ZCI is the first and leading company in design and manufacturing of process and industrial gases screw compressors in Iran. ZCI gas compressors department offers highly engineered products and completely customized solutions based on customer's technical specifications.

- The first and only process gas screw compressor manufacture in Iran.
- Special designed solutions for abrasive and dust laden gases and explosive gases
- EX design for hazardous areas.
- Flexible design of control system based on customer's needs.

### Applications:

These compressors can be used to compress Methane, Natural gas, Ethane, Butane, Biogas, Hydrogen, Carbon Dioxide, Nitrogen gases in variety of applications:

- Fuel gas boosting for turbines and micro turbines
- Natural gas boosting for special furnaces, reformers and reactors
- Bio gas boosting
- Gas and vapor gathering and recovery
- Oil well pressure recovery

## GAS SCREW COMPRESSORS

Air Flow Range	Working Pressure Range	Electrical Power
1.5 - 100 m <sup>3</sup> /min	4 - 60 Barg	5.5 kW-600kW

A low-angle, upward-looking photograph of an industrial facility, likely a refinery or chemical plant. The image features several tall, cylindrical towers and large pipes, all constructed from metal. The towers are equipped with ladders, walkways, and safety railings. The sky is a clear, bright blue. A semi-transparent blue horizontal band is overlaid across the middle of the image, containing white text.

**RECIPROCATING GAS COMPRESSORS  
&  
GAS BLOWERS**

## Reciprocating Gas Compressors:

ZCI reciprocating gas compressors are used in applications which needs higher pressure than the pressure rang of screw type compressors. Also, reciprocating compressors can be a suitable solution in high or very low temperature intake conditions. ZCI is manufacturing a special designed Zero-leakage compressors and booster to compress rare and valuable gases up to 35 bar(g). Also we can design and manufacture large scale reciprocating compressor plants based on API618.

### Applications:

- Fuel gas boosting for turbines and micro turbines
- Natural gas boosting for special furnaces, reformers and reactors
- Gas and vapor gathering and recovery
- Oil well pressure recovery

## RECIPROCATING GAS COMPRESSORS

Air Flow Range	Working Pressure Range	Electrical Power
100-3000m <sup>3</sup> /min	25-400Bar	4.4kW-110kW

### Gas blowers:

ZCI gas blowers are used when differential pressure of inlet and outlet gas is less than 1.5 bar. Our process gas blowers can be designed for hazardous areas, dust laden gases and harsh ambient condition.

### Application:

- Pressure loss compensation over the heat exchangers
- Gas and vapor blowing in to reactors and distillation systems

## GAS BLOWERS

Air Flow Range	Working Pressure Range	Electrical Power
100-100000 m <sup>3</sup> /hr	Up to 2.5 Barg	3kW-2000kW



**AIR & GAS DESICCANT DRYERS**

**AIR & GAS REFRIGERATION DRYERS**

**AIR & GAS RECEIVERS**

**FILTRATIONS**



## Dryers, Treatment Systems and Recievers:

### Dryers:

Desiccant and refrigeration dryers are used to remove water vapor from compressed air and gas to reduce the humidity down to a desired level. ZCI offers high accuracy dew point control solutions using its high quality desiccant and refrigeration dryers.

### Treatment and filtration systems:

We can offer refrigeration dryers for applications which dew point-3C is required. Regenerative desiccant dryers can deliver lower dew points down to -70C using different desiccant materials. Filtration systems including micro filters and activated carbon oil vapor absorbers can deliver pure air and gas to your downstream equipment.

Micro filters can capture solid particles down to 0.01 micron and also oil removal system can reduce oil carryover to 0.003 mgr./m3.

### Air and Gas Recovers:

ZCI can design and manufacture all type of pressure vessels based on ASME Section III, Div. 1 or other specified codes. Our receivers can be designed vertically or horizontally based on your available installation area.

### AIR & GAS DRYERS

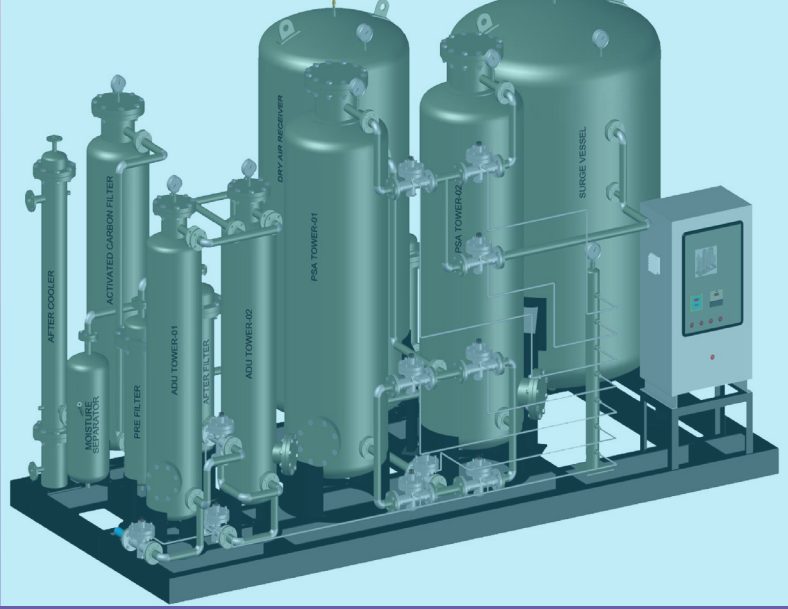
Capacity	Working Pressure Range	Type
2-500 m3/min	6-16 barg	Refrigeration
1.5-300 m3/min	6-16 barg	Adsorption

### AIR & GAS RECIEVER

Capacity	Working Pressure Range
500-30000 Lit	Up to 60barg

### AIR & GAS FILTER

Capacity	Working Pressure Range	Max. Pressure
0.5-100 m3/min	6-16 barg	Dust
0.5-100 m3/min	6-16 barg	Micro



# GAS GENERATION SYSTEMS



## GAS GENERATION AND SEPARATION SYSTEMS:

ZCI gas generation department in close cooperation with world-class partners is involved in design and construction of PSA air separation packages, Cryogenic air separation plants, Co2 recovery plants and hydrogen generators.

### PSA OXYGEN GENERATORS

OXYGEN Flow Range	Outlet Pressure(barg)	Purity
Up to 5000 Nm3/hour	4-6 Bar	92-95 %

### PSA NITROGEN GENERATORS

OXYGEN Flow Range	Outlet Pressure(barg)	Purity
Up to 10000 Nm3/hour	4-6 Bar	95-99.9999 %

### CRYOGENIC NITROGEN PLANT

OXYGEN Flow Range	Outlet Pressure(barg)	Purity
Up to 150000 Nm3/hour	5-400 Barg	95-99.9999 %

### CRYOGENIC OXYGEN PLANT

OXYGEN Flow Range	Outlet Pressure(barg)	Purity
Up to 100000 Nm3/hour	5-400 Barg	95-99.9 %

### HYDROGEN GENERATOR

OXYGEN Flow Range	Outlet Pressure(barg)	Purity
1.33-178 m3/hour	5-30 Barg	99.5-99.9995 %



**REFRIGERATION**

**&**

**AIR CONDITIONING SYSTEMS**

**ZAGROS**

**COMPRESSOR**

**IRANIAN**





## PROCESS COOLING AND INDUSTRIAL HVAC SYSTEMS:

ZCI process cooling and HVAC systems offers high efficiency and life time solutions for your plants. Our vapor compression refrigeration systems can be used as water chillers or process gas cooling units. ZCI offers robust air handling units for industrial plants to provide a comfort working area in factories and offices. We can manufacture explosion proof AHU and chilling systems for hazardous areas.

### AIR COOLED CHILLER

Capacity	Compressors	Evaporator & Condenser
3-550 tons of refrigeration	Scroll-Screw-Reciprocating	Shell & tube or Plate type

### WATER COOLED CHILLER

Capacity	Compressors	Evaporator & Condenser
3-3000 tons of refrigeration	Scroll-Screw-Reciprocating	Shell & tube or Plate type

### AIR HANDLING UNITS

Air Flow Rate	Configuration	Cooling Coils
1500 to 50000 CFM	Vertical-Horizontal	DX or Chilled Water

### CONDENSING UNITS

Capacity	Compressors
5 -550 tons of refrigeration	Scroll-Screw-Reciprocating

**WARRANTY**



# AFTER SALES SERVICES



**GURANTEE**

**TRAINING**

**COURSES**



## ZCI Services

Properly caring for your equipments which involve, air and gas compressors, gas generation systems, refrigeration and HVAC systems helps you lower your operating costs and minimises the risk for unplanned breakdowns or production stops. Zagros Compressor Iranian offers energy efficiency checks, service, repairs, spare parts and maintenance plans for all equipments. Entrust your servicing to our expert professionals and ensure your business continues to run efficiently. Our plans cover repairs, preventative maintenance, spare parts, and more.

### 24/7 Nationwide Coverage

Over trained service engineers at your disposal anywhere in the Iran and neighboring countries for your business's service, repairs or maintenance needs.

### Genuine Compressor and equipments Parts

OEM air compressor parts and pipework built according to the same quality standards as your compressor. Our genuine spare parts ensure you get the quality you are expecting.

### Total Customer Care

Maximum availability of our equipment at minimum total operating cost for you. Our IRAN-based service team ensures local parts and service get to you quickly and cost efficiently.



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