

RIX 2V1 & 2V2

LOW & MEDIUM PRESSURE INDUSTRIAL OIL-FREE GAS COMPRESSORS

RIX INDUSTRIES' 2V FEATURES:

- **Oil-Free Design**
- **Proven Safety Features**
- **Compact, Lightweight**
- **Low RPM for Long Service Life**
- **Continuous, Around-The-Clock Operation**
- **Autocycling (Auto Start/stop or Load/unload)**

**RIX 2V1 single stage
low pressure
20 – 250 psig discharge
Inlet pressures; ambient - 200 psig
Flow rates; 10 – 55 scfm**

**RIX 2V2 two stage
medium pressure
250 – 3600 psig discharge
Inlet pressures; ambient - 200 psig
Flow rates; 10 – 55 scfm**

RIX 2V1 & 2V2 compressors have been developed for the exacting requirements of safe, reliable industrial gas compression service.

The 2V incorporates design features developed over several decades for a variety of industrial and military gas compressor applications.

These units can be configured for compressing gases at many varied suction and discharge pressures, and are designed for continuous around-the-clock operation.

2V1 (single stage) & 2V2 (two stage) compressors employ two oil-free single acting cylinders on a "V" type crosshead design crankcase. Heat exchangers, compression cylinders and crankcase are all air cooled.

The cylinders and heads are lightweight and easily removed. Replacement of rings and valves requires only about one hour.

Optional piston rod packing seals are available for the compression of rare or hazardous gases, and moisture separators can be added for wet gases.

The RIX 2V1 and 2V2 compressors are the ideal match for small flow, low and medium pressure gas compression applications.



The RIX 2V1 & 2V2 Low and Medium Pressure Oil-Free Compressor for Reliable Industrial Dry Gas Compression.



RIX INDUSTRIES
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RIX 2V1 & 2V2 Compressors

SPECIFICATIONS

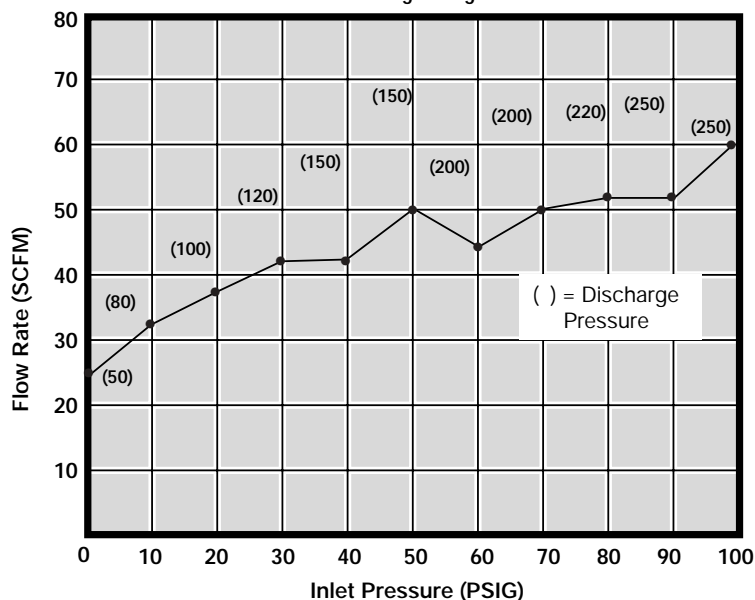
Size, Compressor Pkg.	46"H x 49"L x 22"W (117 Cm x 124 Cm x 56 Cm)
Weight, Compressor Pkg.	550 lbs. (250 Kg)
Power, motor size	to 10 HP 190 to 460 volts as required 50 or 60 Hz as required three phase
Compressor RPM	to 750 RPM
Cooling	air cooled

STANDARD COMPONENTS

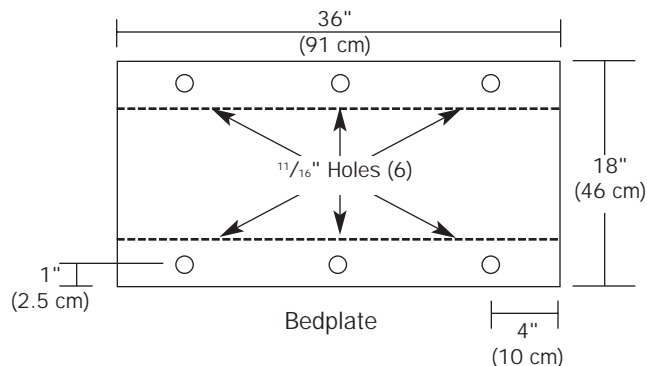
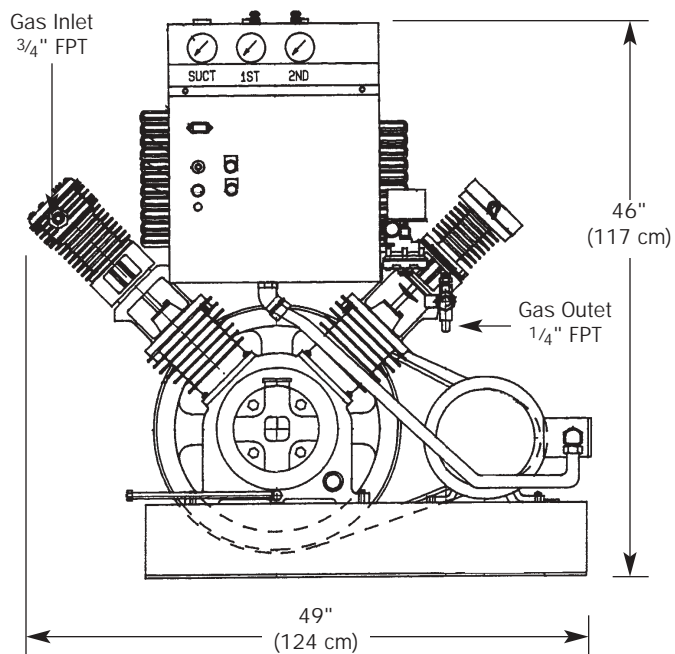
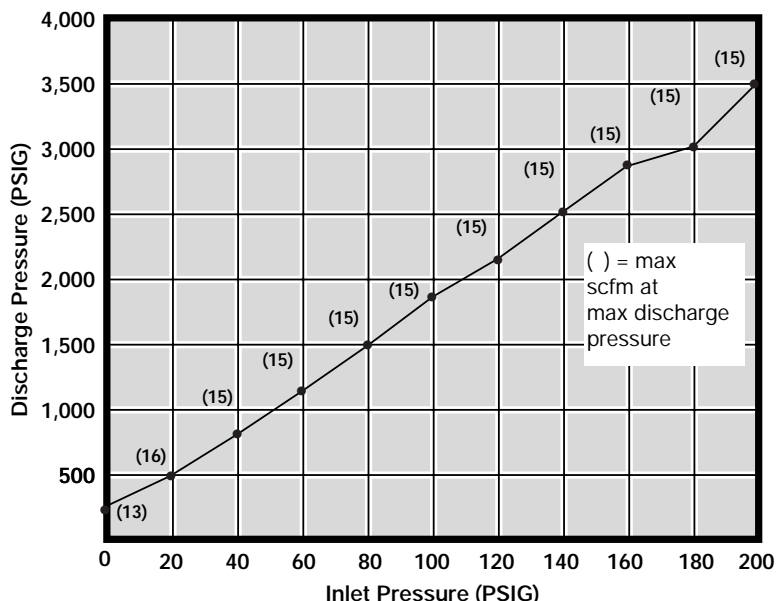
Compressor Package:

- Compressor
- Steel Skid
- V-Belt
- Belt guard
- Motor (5 – 10 HP; 50/60 Cycle; 3-Phase)
- Starter
- Aftercooler
- Pressure gauges & Relief valves
- High Temperature Shutdown
- High Pressure Shutdown
- Auto start/stop or Load/unload control

2V1 Single Stage



2V2 Two Stage



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RIX 3KX SERIES

OIL-FREE OR OIL-LUBRICATED GAS COMPRESSORS FOR HIGH-PRESSURE SERVICE TO 7,000 PSIG

RIX INDUSTRIES' STANDARD AND CUSTOM- DESIGNED COMPRESSORS FEATURE:

- *Single or Multi-Stage Compression*
- *Low Piston Speeds*
- *Continuous Duty*
- *Water Cooling*
- *Crosshead Construction*
- *Pressure-Lube Crankcase*
- *Smooth, Quiet Operation*
- *Compact, Easy to Maintain Design*

RIX 3KX compressors feature heavy-duty crosshead construction with three vertical, inline cylinders and water cooling.

FEATURES

Oil-free Operation: RIX is a world leader in oil-free compression, having built thousands of oil-free compressors for demanding applications such as pure oxygen, nitrogen, argon, hydrogen, helium, CO₂, and other mixed gases.

CONSTRUCTION

Crankcase: Pressure lubricated with shaft-mounted Gerotor oil pump and full flow oil filter.

Bearings: Tapered roller main bearings. Sleeve type con rod bearings and bronze wrist pin bushings.

COMPRESSION AREA

Typical Oil-Free Units

Cylinders: Iron or bronze castings with stainless liners as required. Machined steel for high pressure stages with wet or dry stainless liners.

Piston Rings: A wide selection of materials and designs are available for different pressures, gases and performance requirements. High pressure stages commonly use floating pistons with RIX patented spiral rings for maximum sealing, long life and quick replacement.

Packing Boxes: Vented and/or purged air or water-cooled packings available as required.

Piston Rods: Stainless steel or Tungsten coated for long life. Extra-long distance pieces.

SPECIFICATIONS

Horsepower Range:
20-60 BHP

Displacement:
Up to 105 CFM

Cylinders:
2 to 4 Stages
Diameters from
1/2" to 6"

Stroke:
4.5 inches

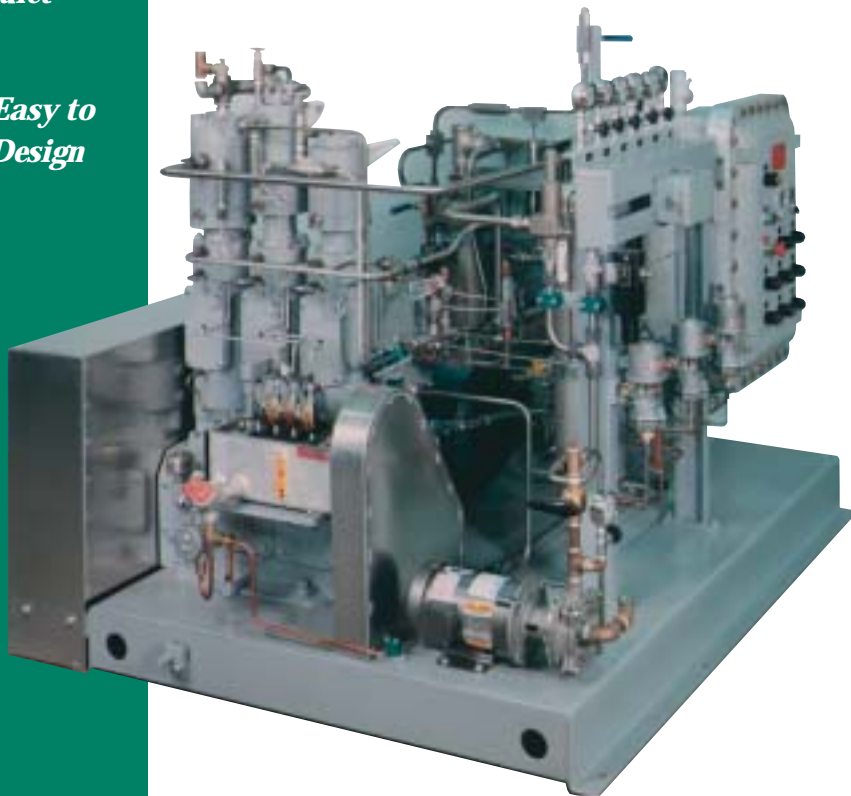
Speed:
250 - 720 RPM

Gases:
Oxygen, Hydrogen,
Argon, Nitrogen, Helium,
Natural Gas, Breathing Air

Valves: Stainless steel plate, poppet or reed type as dictated by gas, flow and pressure.

PACKAGING

Turn-key packaging is a standard practice at RIX Industries. Customer defined accessories and control systems are easily incorporated into RIX package designs. RIX welding meets ANSI B31.3.



RIX 3KX
Hydrogen Compressor

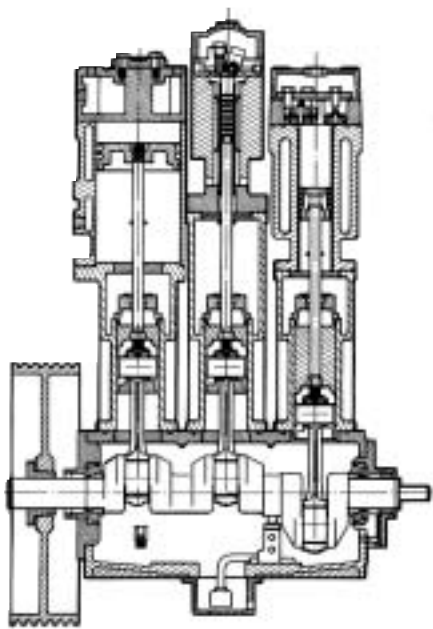


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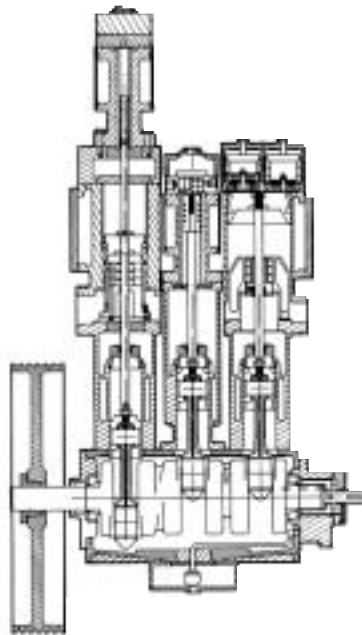
RIX 3KX SERIES

SPECIFICATIONS

Inlet Pressure	Ambient Inlet			25 psig Inlet			50 psig Inlet			100 psig Inlet		
Performance	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP
4-stage	5000	50	50	5000	55	40	6000	60	40	N/A		
3-stage	3000 5000	60 28	50 25	2500	60	40	3000	80	50	6000	70	40



3K3B
Three-Stage Compressor



3KX4B
Four-Stage Compressor

Please call for typical layout drawings with motor, controls and accessories.

CUSTOM DESIGNS

RIX can provide custom engineering services to produce compressors that exactly meet your specifications. RIX's engineers are experienced with a wide variety of materials, manufacturing processes, and alternative configurations. We can help you develop the optimum system design for your application.

Please call us to discuss any compressor or compression system questions you might have.

AVAILABLE FROM:



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INDUSTRIAL GAS/AIR COMPRESSOR

OIL-FREE GAS OR AIR COMPRESSION TO 6,000 PSIG

RIX INDUSTRIES' 4VX COMPRESSOR INCLUDES:

- One to Four Stages of Oil-Free Compression
- Air or Water Cooling
- Crosshead Construction
- Pressure-Lube Crankcase
- Continuous Duty
- Compact, Easy to Maintain Design

The RIX 4VX compressor features heavy-duty crosshead construction in a "V" cylinder arrangement with totally oil-free compression.

FEATURES

Oil-free Operation. RIX is a world leader in oil-free compression, having built thousands of oil-free compressors for demanding applications such as pure oxygen, nitrogen, argon, hydrogen, helium, CO₂, and other mixed gases.

The 4VX uses gapless ring designs developed by RIX for maximum sealing and long life. Special ring materials are available for many different gases and performance requirements.

Optional piston rod seals provide capture of hazardous and rare gases.

Easy to Maintain

■ RIX's free-floating high pressure pistons allow for quick and easy ring changes.

■ Four con rods on the crankshaft allow each piston and cylinder to be serviced independently.

■ With oil-free operation, there are no oil separators to maintain, and no disposal of discharge oil.

Long Service Life

■ Moderate operating speeds reduce wear on moving parts.

■ Pressure-fed oil to the center main, rod bearings, and wrist pin bushings ensures long life of these critical components.

■ High capacity heat exchangers and moderate compression ratios keep cylinder temperatures low.

CONSTRUCTION

Crankcase. Pressure lubricated with shaft mounted gerotor oil pump and spin-on oil filter.

Bearings. Tapered roller main bearings; sleeve-type center main and con rod bearings; bronze wrist pin bushings.

SPECIFICATIONS

Horsepower:

10 to 50 BHP

Cylinders:

1 to 4 Stages, Oil Free
4 " Stroke

Speed:

300 - 1100 RPM

Application:

Industrial gases/
air/oxygen

Cylinders. Air-cooled aluminum with hardened stainless steel liners. Water cooled steel cylinders with field replaceable stainless steel liners optional.

Piston Rings. Piston and rider rings all self-lubricating TFE materials. High pressure stages use RIX patented spiral piston rings with a close tolerance floating piston for long life and quick replacement.

Valves. Stainless steel reed type with air-cooling. Plate or poppet with water-cooling.

Heads. Aluminum or stainless steel.



RIX 4VX
Four Stage, Oil-Free
Industrial Compressor



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RIX 4VX SERIES

SPECIFICATIONS

Inlet Pressure	Ambient Inlet			25 psig Inlet			100 psig Inlet*			500 psig Inlet*		
Performance	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP	MAX. PRESSURE (PSIG)	MAX. FLOW (SCFM)	Motor HP
4-stage	5000	26	25	6000	45	40	N/A			N/A		
3-stage	1000 400	26 55	20 30	2000	60	40	6000	65	40	N/A		
2-stage	260 200	50 70	25 30	550	100	40	1800	100	40	6000	90	40
1-stage	55	110	30	160	180	40	500	180	40	2300	180	40

* Nitrogen use - with underside of pistons vented to atmosphere

STANDARD ACCESSORIES

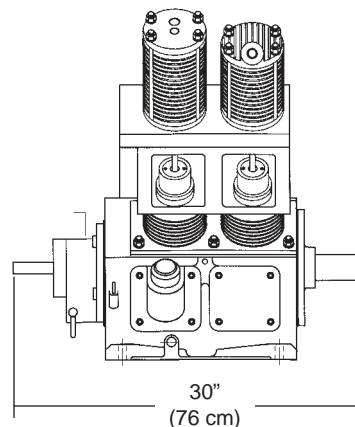
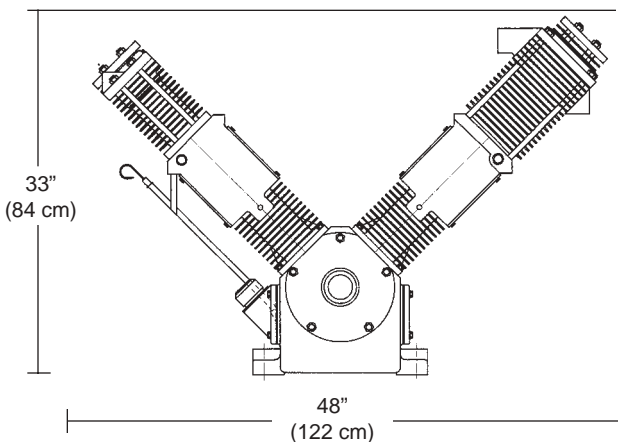
- Steel Skid
- Electric Motor & V-belt drive
- Intercoolers & Aftercooler
- Cooling Air Shroud with Fan
- TENV Cooling Fan Motor
- Safety Switches
- Pressure Gauges
- Relief Valves
- Conversion Resistant Piping
- OSHA Beltguard

TYPICAL PACKAGE OPTIONS

- Complete Control Panel with First-out Lights
- PLC Control
- Motor Starter
- Nema 4 or Nema 7
- Moisture Separators
- Purification Systems
- Pulsation Bottles
- Bypass Valve

A LONG RECORD OF SUCCESS

Since 1878, RIX Industries has been engineering and manufacturing compressors for military, industrial and commercial applications. Over that long period of time, we've developed a world-wide reputation for producing and servicing a line of extraordinary, high quality products. Today, RIX compressors are providing reliable long-term service in such diverse installations as air separation plants, submarines, aircraft, steel mills and refineries.



Bare Unit Weight: 750 lbs. (with flywheel) 340 kg
 Typical Package Dimensions: 47"W x 84"L x 45"H; Weight - 2,100 Lbs.

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