

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

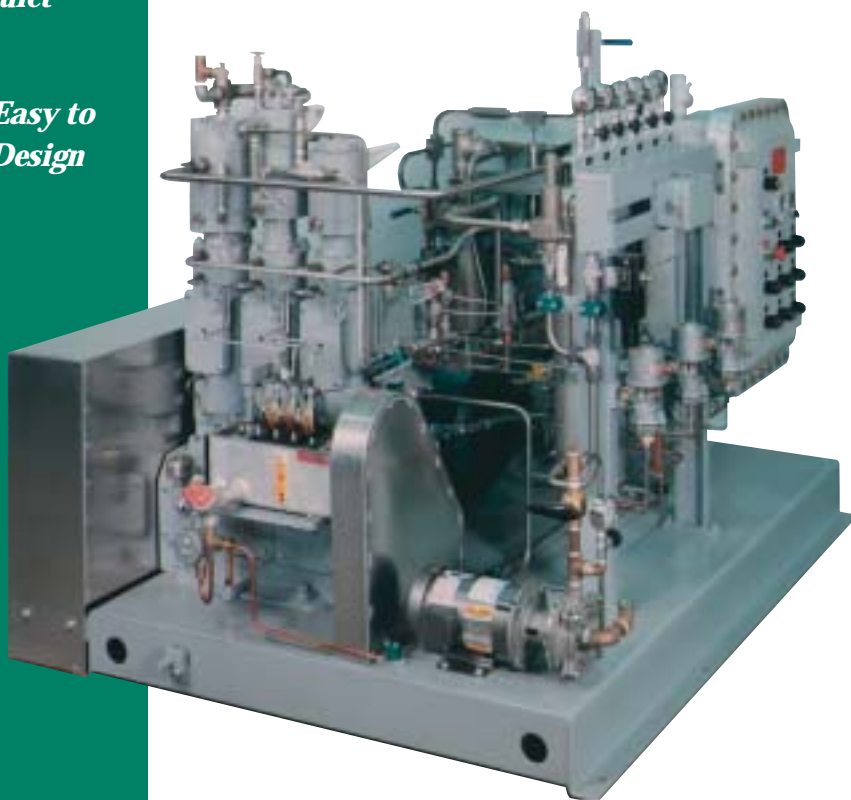
Speed:
250 - 720 RPM

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

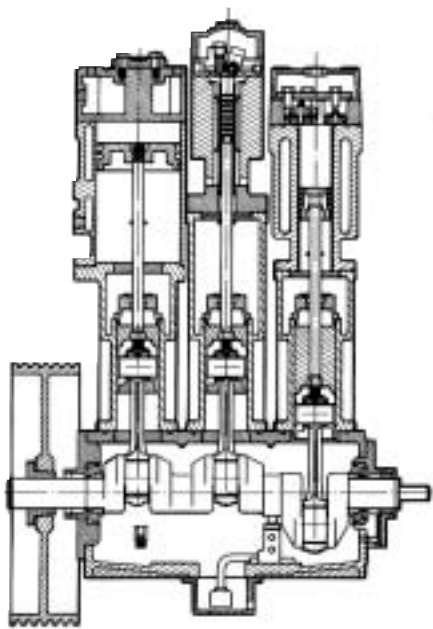


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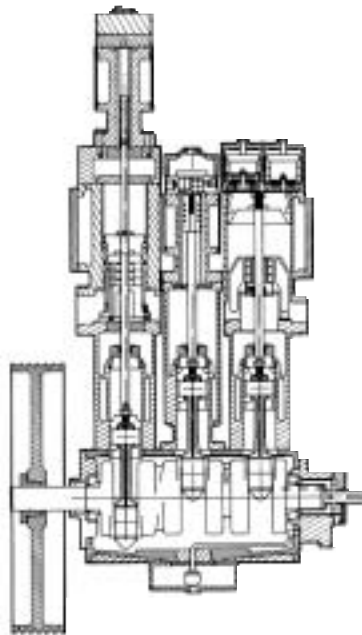
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SPECIFICATIONS

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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