

RIX SA

AIR COMPRESSORS

OIL-FREE BREATHING AIR TO 4,500 PSIG

RIX INDUSTRIES' SA COMPRESSORS INCLUDE:

- **Three Stages of Oil-Free Compression**
- **Portable**
- **Air Cooling**
- **Swash Plate Construction**
- **Grease-Lube Crank Mechanism**
- **Gas or Electric Drive**
- **Compact, Easy to Maintain Design**
- **Easy to Breathe Humid Air**

The RIX SA compressors feature swash plate construction for balanced operation and completely 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 and breathing air for the U.S. Navy, SCUBA shops and fire departments.

The SA's use ring designs developed by RIX specifically for breathing air use.

The RIX SA has been in production for over 18 years, and is used extensively by the U.S. Navy Seal Team divers and many other breathing air customers.

Safety - The RIX Sweet Air SA-3 and SA-6 breathing air compressors are totally oil-free. Oil-free means that there is no lubricating oil inside the compressor. It is impossible for

these compressors to create oil mist or carbon monoxide. Thus, it is impossible for these contaminants to be compressed into your breathing air unless they come in with the compressor inlet air. Regardless of the age or condition of the SA compressor, it can never contribute to a reduction in air quality, or the possible poisoning of the breathing air. Oil-free means no mist or carbon monoxide caused by the compressor - ever!

This is especially critical for partial pressure blending of nitrox. Any oil in the air used for nitrox blending can cause an explosion. (Note: The SA is not designed or approved for compressing **preblended** nitrox.)

Many SCUBA divers, including Navy SEALS, normally take advantage of the oil-free construction by filling their tanks directly from the compressor without using dryers or purification. The humid air produced by the RIX SA compressors eliminates the uncomfortable "dry throat" caused by breathing completely dry air.

Easy to Maintain

RIX compressors are designed to be easy to work on. Two key features are:

- All three pistons can be easily removed for quick and easy ring changes.
- With oil-free operation, there are no oil separators to maintain, and no disposal of discharge oil.

SPECIFICATIONS

Horsepower:

1-5 HP (Electric)
5.5-8 HP (Gas)

Flow:

1-5.5 SCFM
(Free Air Delivery)
1.2-6.5 SCFM
(Charging Rate**)

Cylinders:

3 Stages, Oil Free

Applications:

Pure Breathing Air;
Air Sampling

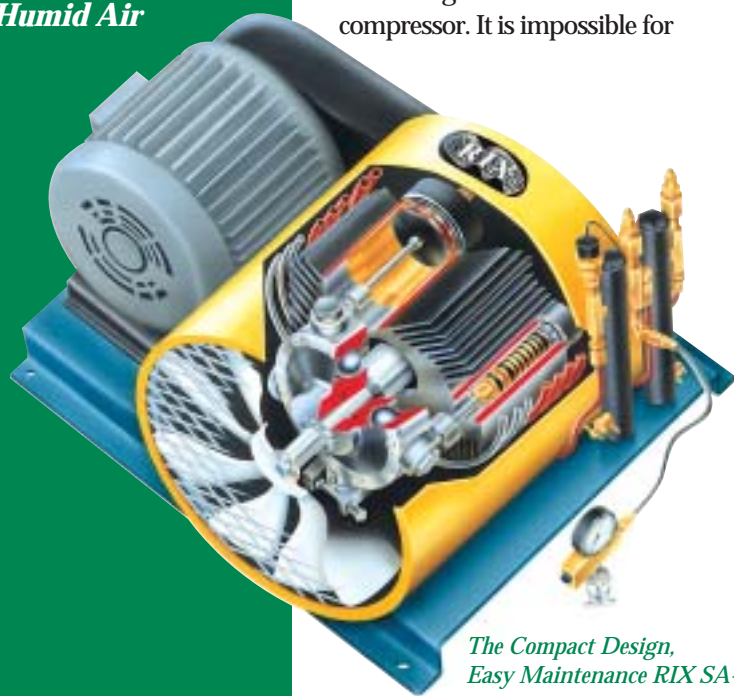
CONSTRUCTION

Cylinders - Field replaceable bronze and hardened stainless steel liners.

Piston Rings - Piston & rider rings are all self-lubricating TFE materials. All stages use RIX patented spiral piston rings with close tolerance pistons for long life and quick replacement.

Valves - Stainless steel reed valves.

Heads - Stainless steel 3rd stage; Aluminum 1st and 2nd stages.



The Compact Design,
Easy Maintenance RIX SA-6E



Phone: (707) 747-5900
Fax: (707) 747-9200

RIX SA SWEET AIR SERIES

PURE AIR, EASY MAINTENANCE, COMPACT DESIGN

Service on the RIX Sweet Air Oil-free compressor is simple and easy. It requires no special technical abilities. Since there is no "oil-bath" crankcase, as in lubricated compressors, the parts requiring normal service and maintenance are easily accessible. Compression pistons and rings can be removed and replaced without disturbing high pressure lines, cylinder heads, valves, etc. Repairs can be done in the field with a minimum of parts and tools, requiring very little time.

As you can see, the Rix Sweet Air oil-free breathing air compressor offers substantial advantages over old-fashioned oil-lubricated compressors. Safety during operation and ease of service are the trademark of the RIX compressor. RIX has been designing, manufacturing, and assembling air compressors in the San Francisco Bay area since 1878. Pure breathing air and minimal service problems are now, and have been for over 100 years, the goal of RIX compressors.

OTHER USES

The SA's are also very suitable for air sampling, contaminant-free gas recovery and other industrial uses where **oil-free** high pressure compression is needed. Please call or fax us if you have any questions about the SA's or our other oil-free compressors.

SPECIFICATIONS - SA Series Compressors

| Drive | Model | Max PSI | FAD SCFM | Charging Rate** SCFM | Dimensions | Weight DRY | Comments |
|----------|-------|---------------|-------------|-------------------------|--|--------------------|--|
| Electric | SA-6E | 3300 4500* | 5.5 | 6.5 | 30"L x 19" x 18"H | 187 lbs 213 lbs | 5 hp, 230/460V, 3 phase standard 230V, 1 phase (optional) |
| Gas | SA-6G | 3300 4500* | 5.5 | 6.5 | 33"L x 19" x 18"H 35"L x 19" x 18"H | 150 lbs 155 lbs | 7.5 hp Wisconsin, remote fuel tank 8 hp Honda, integral 6 qt. fuel tank |
| Electric | SA-3E | 3300 | 2.2 3.0 | 2.5 3.5 | 24"L x 16" x 15"H | 124 lbs 130 lbs | 2 hp, 230 volt, 1 phase, standard 3 hp, 3.0 SCFM (optional) |
| Gas | SA-3G | 3300 | 3.0 | 3.5 | 27"L x 16" x 15"H | 108 lbs | 5.5 hp Honda, 3.8 qt. fuel tank |

*Standard relief valve is 3600 psi. A 4,000 or 4,500 psi relief valve is a no cost option (SA-6 only). A 5000 psi relief valve is available on special order. Contact RIX Sales Dept.

** "Charging Rate" based on filling tank from 500 to 3000 psig.

SA 6-97

Available from:

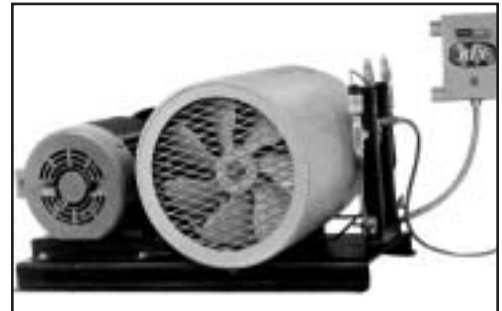
SA-3E
Electric
Motor Drive



SA-3G
Gas Engine
Drive



SA-6E
Electric
Motor Drive



SA-6G
Gas Engine
Drive



RIX INDUSTRIES
4900 Industrial Way
Benicia, CA 94510 USA
Phone (707) 747-5900
Fax (707) 747-9200