



STAR SERIES MADE IN AMERICA



RELIABILITY, INNOVATION,
EXPERIENCE

OIL-FREE LOW PRESSURE AIR COMPRESSOR

RIX Industries' proven state-of-the-art, oil-free design offers unprecedented value, reliability and performance, from 30-450 SCFM and delivering up to 150 PSIG discharge pressure. Environmental features include zero oil consumption and zero oil contamination with high reliability and minimum maintenance. Drained fluids contain no hazardous materials and can be disposed without environmental concern, resulting in clean and environmentally friendly results. This compressor uses positive displacement, single-screw water-flooded rotary compression technology with balanced, free-floating gate rotors. The compressed air is totally oil-free because oil is not used anywhere in the compressor design; rather, water is used to cool, seal, and lubricate during compression.

RIX MODEL: **STAR-250 OIL-FREE** LOW PRESSURE AIR COMPRESSOR

OIL-FREE COMPRESSOR.....	RIX Model STAR-250, Low Pressure, Oil-Free, Rotary Single-Screw Type, Water-Injected, 268 SCFM, 150 PSIG, Electric Motor Drive.
COMPRESSOR DRIVE.....	Direct, Shaft Coupled
ELECTRIC POWER.....	440 VAC, 3Ø, 60 Hz
ELECTRIC MOTOR.....	75 hp, 460V, 3Ø, 60Hz, 3530 rpm, 1.15 SF, FLA 120A, Enclosed Fan Cooled
PACKAGE.....	Marine Skid Mounted
AMBIENT AIR TEMPERATURE.....	35°F to 104°F (2°C to 40°C)
INTAKE AIR TEMPERATURE.....	35°F to 104°F (2°C to 40°C)
INTAKE AIR PRESSURE.....	Atmospheric
FLOW RATE.....	268 SCFM (455 Nm ³ /h)
DISCHARGE PRESSURE.....	60 to 150 PSIG (4.1 to 10.3 barg)
CONTROL SYSTEM.....	PLC based compressor management system with color touchscreen display.
INSTRUMENTATION.....	Full-range monitoring of all compressor variables with adjustable set points
COOLING TYPE.....	Water cooled
Fresh Water Inlet Pressure.....	20 to 45 psig (1.38 to 3.1 barg)
Fresh Water Inlet Temperature.....	40°F to 104°F (2°C to 40°C)
Sea Water Inlet Pressure.....	20 to 145 psig (1.38 to 10 barg)
Sea Water Inlet Temperature.....	28°F to 90°F (-2.2°C to 32°C)
Sea Water Flow Rate.....	40 gpm (150 l/pm)
OVERALL DIMENSIONS (est.):.....	74" W x 48" L x 60" H (1860 mm W x 1200 mm L x 1500 mm H)
OVERALL DRY WEIGHT (est.):.....	2,650 lbs. (1200 kg)

AVAILABLE MIL-SPEC QUALIFICATIONS

- MIL-S-901, SHOCK TEST REQUIREMENTS FOR SHIPBOARD MACHINERY, EQUIPMENT AND SYSTEMS
- MIL-STD-167-1, MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT
- MIL-STD-461, REQUIREMENTS FOR CONTROL OF ELECTROMAGNETIC INTERFACE EMISSIONS AND SUSCEPTIBILITY
- MIL SPEC TECHNICAL MANUAL MIL PROVISIONING TECHNICAL DOCUMENTATION AND SPARES LIST
- EOSS/MRC'S/SAFETY ASSESSMENT/HUMAN ENGINEERING

ALL STAR SERIES PRODUCTS:*

STAR-30	30 SCFM (47 NM ³ /H)	10 HP (7.5 KW)
STAR-45	46 SCFM (72 NM ³ /H)	15 HP (11.2 KW)
STAR-60	64 SCFM (102 NM ³ /H)	20 HP (15 KW)
STAR-90	95 SCFM (150 NM ³ /H)	30 HP (22 KW)
STAR-150	169 SCFM (252 NM ³ /H)	50 HP (38 KW)
STAR-250	268 SCFM (452 NM ³ /H)	75 HP (56 KW)
STAR-350	374 SCFM (594 NM ³ /H)	100 HP (75 KW)
STAR-400	410 SCFM (650 NM ³ /H)	125 HP (93 KW)
STAR-450	455 SCFM (722 NM ³ /H)	150 HP (112 KW)

*DISCHARGE PRESSURE UP TO 150 PSIG FOR ALL UNITS.

OIL-FREE LOW PRESSURE AIR COMPRESSOR

RIX MODEL STAR-150

OIL-FREE COMPRESSOR	RIX Model STAR-150, Low Pressure, Oil-Free, Rotary Single-Screw Type, Water-Injected, 150 SCFM, 150 PSIG, Electric Motor Drive.
DRIVE	Direct, Shaft Coupled
ELECTRIC POWER	440 VAC, 3Ø, 60 Hz, 58A
COMPRESSOR MOTOR	50 HP (37 kW), 3540 RPM, Enclosed, Fan Cooled
PACKAGE	Marine Skid Mounted (Hatchable)
AMBIENT AIR TEMPERATURE	40°F to 122°F (4.4 to 50°C)
INTAKE AIR TEMPERATURE	35°F to 122°F (1.7 to 50°C)
INTAKE AIR PRESSURE	Atmospheric
FLOW RATE	150 SCFM (238 Nm ³ /h)
DISCHARGE PRESSURE	60 to 150 PSIG (4.1 to 10.3 barg)
CONTROL SYSTEM	PLC based compressor management system. Color touchscreen display. Time and date stamp recording of all actions and alarms for maintenance and troubleshooting. Trending of pressure, temperature, duty-cycle. Digital communications.
INSTRUMENTATION	Full-range monitoring of all compressor variables. Adjustable set points for alarms, shutdowns and timers.
COOLING TYPE	Water-cooled
Fresh Water Supply Pressure	20 to 45 psig (1.38 to 3.1 barg)
Fresh Water Inlet Temperature	40°F to 104°F (4.4 to 40°C)
Fresh Water Volume	14 gallons (53 Liters)
Seawater Supply Pressure	20 to 145 psig (1.38 to 10 barg)
Seawater Inlet Temperature	28 to 95°F (-2.2 to 35°C)
Seawater Flow Rate	30 gpm (114 lpm)
DRY WEIGHT	2,500 lbs. (1136 kg)
DIMENSIONS	32" W x 64" L x 51" H (Hatchable) (813 mm W x 1626 mm L x 1295 mm H)

AVAILABLE MIL-SPEC QUALIFICATIONS

- MIL-S-901, SHOCK TEST REQUIREMENTS FOR SHIPBOARD MACHINERY, EQUIPMENT AND SYSTEMS
- MIL-STD-167-1, MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT
- MIL-STD-461, REQUIREMENTS FOR CONTROL OF ELECTROMAGNETIC INTERFACE EMISSIONS AND SUSCEPTIBILITY
- MIL SPEC TECHNICAL MANUAL MIL PROVISIONING TECHNICAL DOCUMENTATION AND SPARES LIST
- EOSS/MRC'S/SAFETY ASSESSMENT/HUMAN ENGINEERING

STAR SERIES PRODUCT LINE*

STAR-30	30 SCFM (47 NM ³ /H)	10 HP (7.5 KW)
STAR-45	46 SCFM (72 NM ³ /H)	15 HP (11.2 KW)
STAR-60	64 SCFM (102 NM ³ /H)	20 HP (15 KW)
STAR-90	95 SCFM (150 NM ³ /H)	30 HP (22 KW)
STAR-150	169 SCFM (252 NM ³ /H)	50 HP (38 KW)
STAR-250	268 SCFM (452 NM ³ /H)	75 HP (56 KW)
STAR-350	374 SCFM (594 NM ³ /H)	100 HP (75 KW)
STAR-400	410 SCFM (650 NM ³ /H)	125 HP (93 KW)
STAR-450	455 SCFM (722 NM ³ /H)	150 HP (112 KW)

*DISCHARGE PRESSURE UP TO 150 PSIG FOR ALL UNITS.