

AIR COMPRESSOR OIL-FREE, HIGH-PRESSURE SHIPBOARD & SUBMARINE AIR



MODEL 5R5-75

MAX DISCHARGE PRESSURE: 4,500 PSIG (310 BAR)

MAX FLOW RATE: 75 SCFM

PROGRAMS: SSN, LHA, LHD, LSD, CG, DDG, T-AOE

LOW NOISE, DYNAMICALLY BALANCED

DURABLE, HIGH-EFFICIENCY DESIGN

MODULAR BUILD FOR SHIPBOARD INSTALLATION

MIL-SPEC QUALIFIED

To learn more or to discuss your specific application, please contact us at:

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OIL-FREE, HIGH-PRESSURE SHIPBOARD AND SUBMARINE AIR

TECHNICAL SPECIFICATIONS

COMPRESSOR TYPE	Reciprocating, 5 Stage, Electric Motor Driven
COMPRESSOR DRIVE	Direct, Vertical Mount Swash Plate Drive
POWER REQUIREMENT	440 VAC, 3 phase, 60 Hz, 80 Amp
ENVIRONMENT	Enclosed Marine (Below decks, environmentally protected)
AMBIENT AIR TEMPERATURE	35°F to 130°F
HUMIDITY	30% TO 85% RH
FLOW CAPACITY	Up to 75 SCFM (lower with optional dehydrator package)
DISCHARGE PRESSURE	Up to 4500 PSI
DISCHARGE DEWPOINT	As low as -60°F @ 4500 psig with optional dehydrator package
MOTOR	Continuous Duty, 60 HP, 900 RPM, 440 VAC, 3 phase, 60Hz, Vertically Mounted, Sealed Insulation, Totally Enclosed, Oil Cooled, Squirrel Cage Motor meeting MIL-M-17060 requirements
INTEGRATED HIGH VOLTAGE	PLC based computer controlled CMS (Compressor Management System)
ENCLOSURE & MICROPROCESSOR CONTROLS	440 VAC, 3 phase, 60 Hz, 80 Amp with Main Motor, reset push button
MONITOR / ALARMS	Full range monitoring, alarms and shutdowns of all compressor stages, cooling system, oil distribution system, separators and operation by CMS Controller
OPERATION	Integrated flow schematic display
COOLING	Direct chilled water or seawater with closed loop internal cooling available
COOLING WATER FLOW	20 gpm
WEIGHT	4500 lbs.
DIMENSIONS	52" L x 37" W x 68" H

SHIPBOARD QUALIFIED

- Shock Qualified and NAVSEA Approved to MIL-S-901D, Grade A
- Vibration Qualified and NAVSEA Approved to MIL-STD-167-1, Type 1 (up to 25 Hz)
- Electromagnetic Interference Qualified and NAVSEA Approved to MIL-STD-461
- NAVSEA Approved 2000 Hour Endurance Test Qualified

MIL SOFTWARE AND DOCUMENTATION

- MIL Technical Manuals:
- MIL Provisioning Technical Documentation and Spares Lists
- EOSS/MRC's/ Safety Assessment/ Human engineering, etc.
- Welding to NAVSEA Technical Orders S9074-AR-GIB-010/278 and NDT Testing to T9074-AS-GIB-010/271

ABOUT RIX INDUSTRIES

Founded in 1878, RIX Industries is a technology-focused company, headquartered in Benicia, CA, specializing in the design, development and manufacturing of pneumatic energy storage and transfer-control system solutions, including gas generation systems, precision compressor solutions and cryogenic cooling technologies for critical applications in Marine, Aerospace, Land, Energy, Industrial and Medical markets.

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