

# NITROGEN GENERATION OIL-FREE SHIPBOARD NITROGEN GENERATION SYSTEM



## MODEL MINIGEN MG-30BDX

DISCHARGE: NITROGEN, 99.5% PURE

DISCHARGE PRESSURE: 3000 PSIG

MAX FLOW RATE: 5 SCFM

INLET: LOW PRESSURE AIR

PROGRAMS: LHA, LHD

SIZE: 62" W x 31" L x 56" H

DRY WEIGHT: 1150 LBS

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

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# OIL-FREE NITROGEN GENERATION

## FEED AIR

FEED (AIR) REQUIREMENTS..... Feed (Air) Pressure:  
100 – 150 psig  
Feed (Air) Flow:  
~ 30 SCFM

## N<sub>2</sub> SEPARATION MODULES

MEMBRANES ..... Membranes produce low dewpoint dry Nitrogen with no moving parts. High-efficiency semi-permeable hollow fiber polymer bundles are compact and light weight.

FILTRATION..... Activated Carbon Protection (protects against damage by hydrocarbons from contaminated intake air)

## N<sub>2</sub> BOOST COMPRESSOR

N<sub>2</sub> BOOST COMPRESSOR ..... RIX Model 2V3, Oil Free Reciprocating Air Compressor

BOOST COMPRESSOR MOTOR..... Continuous Duty, 15 HP, 1800 RPM, 460 VAC, 3Ø, 60 Hz

DRIVE..... "V" Belt

## RIX MODEL MG-30BDX

PACKAGE..... Compact assembly, air cooled

POWER REQUIREMENT..... 460 VAC, 3Ø, 60 Hz

FLOW CAPACITY..... 5 SCFM delivered Nitrogen at 99.5% purity and Standard Operating Conditions (68 °F, 50% RH, Sea Level)

N<sub>2</sub> PURITY..... 99.5% N<sub>2</sub> (< 0.5% Oxygen Content), monitored, with low purity shutdown.

N<sub>2</sub> HYDROCARBON CONTENT ..... < 50 ppm(v) Total Hydrocarbon Content

MOISTURE CONTENT ..... < 26 ppm(v) Moisture Content

CONTROLS..... Fully automatic PLC Controller controls and monitors the N<sub>2</sub> Generation process and adjusts operation to assure continuous N<sub>2</sub> purity.

OPERATION ..... Manual "one button" start, automatic operation and control based upon pressure demand and N<sub>2</sub> purity.

OXYGEN MONITOR ..... Integrated Zirconia type Oxygen Monitor with an accuracy of 0.1% sends a purity signal into the PLC and adjusts system conditions to assure continued Nitrogen purity.

DRY WEIGHT ..... 1,150 lbs. maximum.

DIMENSIONS ..... 62" W x 31" L x 56" H

## 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.

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



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