

NITROGEN GENERATION

OIL-FREE SHIPBOARD NITROGEN GENERATION SYSTEM



MODEL NGEN-30S

DISCHARGE: NITROGEN, 99.5% PURE

DISCHARGE PRESSURE: 5000 PSIG

MAX FLOW RATE: 24 SCFM

INLET: AMBIENT AIR

PROGRAMS: CVN

SIZE: 48" W x 119" L x 55" H

DRY WEIGHT: 5824 LBS

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

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OIL-FREE HIGH-PRESSURE NITROGEN GENERATOR

FEED AIR COMPRESSOR

FEED (AIR) COMPRESSOR.....	RIX Model 4VX, Oil Free Reciprocating Air Compressor
FEED COMPRESSOR MOTOR...	Continuous Duty, 50 HP, 3600 RPM, 460 VAC, 3Ø, 60 Hz
DRIVE.....	"V" Belt

N₂ 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. Membrane modules are field replaceable.
FILTRATION.....	Activated Carbon Protection (protects against damage by hydrocarbons from contaminated intake air)

N₂ BOOST COMPRESSOR

N ₂ BOOST COMPRESSOR.....	RIX Model 3V3, Oil Free Reciprocating Air Compressor
BOOST COMPRESSOR MOTOR.....	Continuous Duty, 15 HP, 1800 RPM, 460 VAC, 3Ø, 60 Hz
DRIVE.....	"V" Belt

QUALIFICATION AVAILABILITY

MIL-S-901D, 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

RIX MODEL NGEN-30S NITROGEN GENERATOR

PACKAGE.....	Skid mounted, water-cooled.
POWER REQUIREMENT.....	460 VAC, 3Ø, 60 Hz
FLOW CAPACITY.....	24 SCFM delivered Nitrogen at 99.5% purity and Standard Operating Conditions (68 °F, 50% RH, Sea Level)
N ₂ PURITY.....	99.5% N ₂ (< 0.5% Oxygen Content), monitored, with low purity shutdown.
N ₂ DISCHARGE PRESSURE...	User settable, 2,500 to 5,000 PSIG, with factory settable 5,000 psi relief valve.
N ₂ 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 ₂ Generation process and adjusts operation to assure continuous N ₂ purity.
OPERATION	Manual "one button" start, Automatic operation and control based upon pressure demand and N ₂ purity.
OXYGEN MONITOR	Paramagnetic 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	5,824 lbs. maximum.
DIMENSIONS	48" W x 119" L x 55" H (without resilient mounts)

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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