

Nuvair LP Nitrox Generator Silent Series

SKU: 7060-7063-EK76-EK100

Price: ?0.00



Description

The low pressure (LP) Nitrox Generator series uses a rotary screw low pressure (LP) compressor, air/oil aftercooler, and filtration to provide the membrane system with a source of clean, pressurized feed air for separation. The air is filtered to CGA Grade D or better air quality prior to entering the membrane system so it will not damage or plug the membrane fibers. Specifications for Grade D air are provided in the User Manual appendix. The membrane system is rated for a maximum feed air pressure of 300 psi (21 bar) and has been configured to work well with the 175 psi (12 bar) maximum pressure delivered by the LP compressor. The model shown is equipped with an optional refrigerated air dryer.

A back-pressure regulator is used to adjust the amount of air the screw compressor produces to meet the appropriate levels for various O₂% nitrox production. The air is then heated to a temperature that provides stability over a wide range of ambient conditions, is optimal for membrane permeation, and prevents moisture condensation. The nitrox system allows for efficient and cost-effective nitrox production using electric power, without the hazards or expense of partial-pressure blending with stored high pressure oxygen (O₂). Instead, the system uses a semi-permeable membrane to produce nitrox from air. A portion of the nitrogen in air is separated out, leaving an enriched air nitrox mixture. Although it is described as a "nitrox compressor," it can also pump air.

Features

- Silenced cabinet
- Nitrox membrane system with (2) O₂ analyzers
- Hankison LP filtration for membrane system
- Refrigerated air dryer for long filter life
- Automatic condensate drains
- Automatic shutdown for high pressure and high temperature

- Soft start

Advantages

- Simplest, most cost-effective nitrox systems available
- Supply LP nitrox containing up to 40% oxygen
- Lower costs, less hassles and hazards compared to O₂ blending
- Systems to fit most HP compressors
- Rotary screw LP compressor provides quiet operation and low maintenance

Specifications

Model	LP280	LP300	LP450	LP600	LP750	LP1000
230 V / E1 / 60 Hz	54A 7060.1-EK76-SILENT	N/A	N/A	N/A	N/A	N/A
230 V / E3 / 60 Hz¹	N/A	30A 7060.2-EK76-SILENT	48A 7061.2-EK76-SILENT	64A 7062.2-EK76-SILENT	64A 7063.2-EK100-SILENT	80A 706X.2-EK100-SILENT
440 V / E3 / 60 Hz	N/A	16A 7060.3-EK76-SILENT	21A 7061.3-EK76-SILENT	33A 7062.3-EK76-SILENT	33A 7063.3-EK100-SILENT	40A 706X.3-EK100-SILENT
400 V / E3 / 50 Hz	N/A	19A 7060.6-EK76-SILENT	24A 7061.6-EK76-SILENT	38A 7062.6-EK76-SILENT	38A 7063.6-EK100-SILENT	42A 706X.6-EK100-SILENT
LP Compressor Capacity @ 175 psi	29 CFM · 821 L/min	29 CFM · 821 L/min	46 CFM · 1303 L/min	57 CFM · 1614 L/min	81 CFM · 2294 L/min	95 CFM · 2690 L/min
Rated to Supply FAD for 40% O₂	10 CFM (280 L/min)	11 CFM (311 L/min)	16 CFM (450 L/min)	22 CFM (623 L/min)	26.5 CFM (750 L/min)	38 CFM · 1019 L/min
FAD for 36% O₂	12.5 CFM (350 L/min)	14 CFM (396 L/min)	20 CFM (556 L/min)	28 CFM (793 L/min)	33.5 CFM (948 L/min)	49 CFM · 1387 L/min
FAD for 32% O₂	17 CFM (480 L/min)	19 CFM (538 L/min)	27.5 CFM (779 L/min)	38 CFM (1076 L/min)	46 CFM (1301 L/min)	65 CFM · 1840 L/min
Weight²	1060 lb · 476 kg	1050 lb · 476 kg	1151 lb · 522 kg	1110 lb · 503 kg	1250 lb · 567 kg	1300 lb · 590 kg
Dimensions (L x W x H)	45.5 x 49 x 61 in (116 x 125 x 155 cm)					

Membrane Input

Operating

Pressure

100-175 psi (7-12 bar)

Optimum

110° ± 5° F (43° ± 3° C)

Temperature

¹For information about 50 Hz models, contact your sales representative.

²Model weight may vary depending on the motor type.