

# PRODUCT CATALOG

Over 30 years manufacturing high and low pressure compressors used for breathing air, nitrox, paintball and industrial applications.



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## About Us

Nuvair has been manufacturing low and high pressure breathing air systems for the working diver for over 30 years. In recent years Nuvair has expanded beyond diving into the Fire & Safety, Industrial and Paintball compressor markets as well. We offer standard and custom configurations for a wide variety of stationary and portable installations. Nuvair can create customized compressors to meet your specific needs and guide you through the many configurations that the compressor packages can be purchased in. Our staff understands that needs, budget and comfort level lead to the choices one makes on the type, brand and model of compressor you will be using. Nuvair offers custom configurations of tried and true compressor brands combined with electric, gas or diesel motors of the same caliber.

All Nuvair compressor packages are manufactured in-house and tested before leaving Nuvair. From start to finish our technicians are making sure your compressor package is inspected, tested and delivered on time.

The Company's CEO and founder, Glenn Huebner, is the innovative force behind many of the Company's Nitrox Systems. He has a Bachelor's of Science Degree in Finance from California State University, Northridge and over 25 years experience in commercial and sport diving and the use of gas producing systems.

The Company's Production Manager, Danny Graham, assists in the technical design of the Company's products and is responsible for coordinating the manufacturing process. He is a certified compressor repair technician and has over 15 years experience in the commercial and sport diving industry.



Nitrox Solutions



Analyzers



Compressors



Panels and Fill Stations



Compressor Accessories



Fill Containment Stations

# Nitrox Membrane Systems

Nuvair designs and builds electric, gas, diesel and hydraulic powered Nitrox Membrane Systems for commercial, sport, live aboard, and government agencies all around the world. Our customers use Nitrox to increase safety, bottom time, productivity, and profit. The Nuvair Membrane System is more efficient and easier to use than competing systems.

Nuvair Nitrox Systems use Semi-Permeable Membranes to separate out a portion of the nitrogen in air. Nitrox mixtures, containing between 21 and 40% oxygen ( $O_2$ ), are then delivered to a High Pressure Compressor to fill Scuba Cylinders or Storage Tanks or to a Low Pressure Compressor for pumping to surface-supply divers. Although this Compressor is described as a Nitrox Compressor, it can also be used to produce air.

The Membrane System requires a source of clean, pressurized, and heated air for separation. The two most common sources are an LP Compressor (LP Supply) or HP Air Storage Tanks (HP Supply). The air must be properly filtered to CGA Grade D or E air quality prior to entering the Membrane System so it will not damage or plug the Membrane fibers.

Standard systems are rated for maximum supply pressures of 250 P.S.I. (17 bar) for LP Supply and 5000 P.S.I. (345 bar) for HP Supply; higher ratings are available upon request. An Input Pressure Regulator reduces these pressures to acceptable levels for the Membrane. The air is then heated to a temperature that provides stability over a wide range of ambient conditions and is optimal for membrane permeation.

The heated air enters the Membrane, which is made up of thousands of miniature hollow fibers. The walls of these fibers are semi-permeable and designed for different gases to move through them (or permeate) at different speeds. The resulting gas mixture is known as the permeate. As air flows through the hollow fibers, both oxygen and nitrogen permeate through the fiber walls. The oxygen permeates faster than the nitrogen, which produces permeate with an oxygen content greater than air. The gas that reaches the end of the hollow fibers without permeating is almost entirely nitrogen and is discharged. The flow rate of this discharge is set by the factory via a fixed orifice to allow the Membrane to operate at maximum volume and efficiency. The resulting permeate contains approximately 44%  $O_2$  and is constant under all operating conditions.

The permeate is a concentrated mixture that must be diluted with additional air prior to entering the Nitrox Compressor. It exits the Membrane at ambient to slightly negative pressure and travels into the Mixing Tube, where it mixes homogeneously with filtered outside air. The amount of dilution, and thus final % $O_2$ , is obtained by adjusting the Input Pressure Regulator. As pressure is increased, permeate flow increases, air flow decreases, and a higher % $O_2$  Nitrox is produced. As pressure is decreased, permeate flow decreases, air flow increases, and a lower % $O_2$  Nitrox is produced. This relationship between permeate flow and air flow exists because the total of these two flow rates will always equal the intake flow rate demanded by the Nitrox Compressor. The resulting Nitrox mixture is analyzed for approximate % $O_2$  before entering the Nitrox Compressor and again prior to use for precise % $O_2$ .

A unique feature of the Nuvair Nitrox Membrane System is that the input pressure that correlates to a specific Nitrox % $O_2$  is repeatable. If Nitrox with 36%  $O_2$  is produced when the input pressure is at 125 P.S.I. (9 bar), then adjusting the Regulator to 125 P.S.I. (9 bar) during the next use will produce the same mixture.

# Why use the NUVAIR™ Membrane System?

## Simple

- Complete Turnkey operation
- Easiest, most stable system available
- Adjust regulated input for desired O<sub>2</sub>%
- Only 1 hour operator training required
- 2 hour average installation
- No compressor modifications

## Reliable

- Mix accurate to one tenth of 1%
- 20-30 year Membrane life
- Limited 3 year Membrane warranty

## Versatile

- Pump Nitrox from 21% to 40% O<sub>2</sub>
- Unlimited continuous on-site production
- Low pressure or high pressure supply
- No size or flow limits
- Banked, hot fills, or continuous output
- Ideal for remote sites and live aboard
- Compact and lightweight
- Trimix systems available

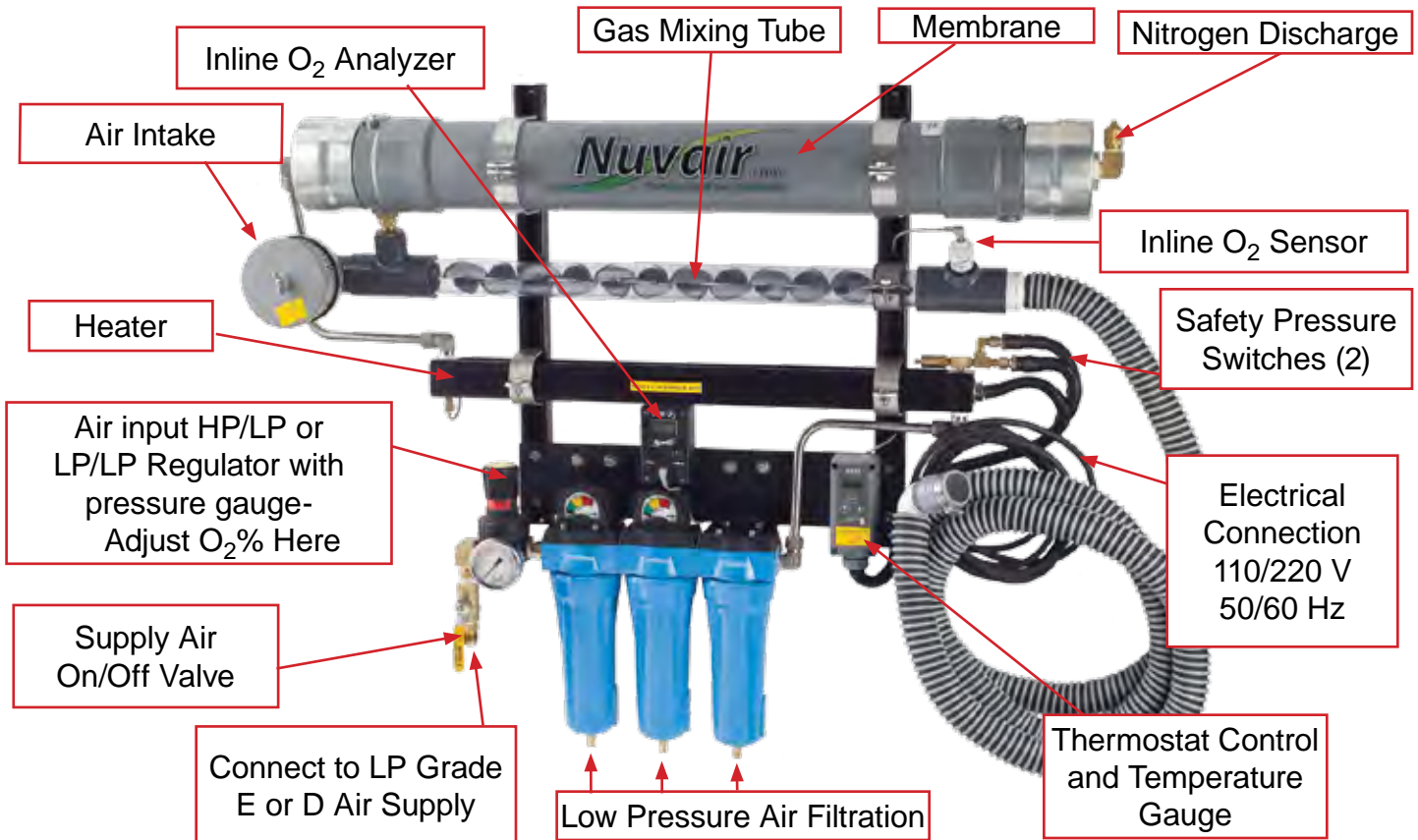
## Practical

- Replaces Partial Pressure or Continuous Blending
- No O<sub>2</sub> cleaning of tanks or equipment
- No blending courses required
- No high pressure oxygen on site
- No expensive blending panels or OCA filters
- No worries about voiding compressor warranty
- No worries about Fire Inspector shut down

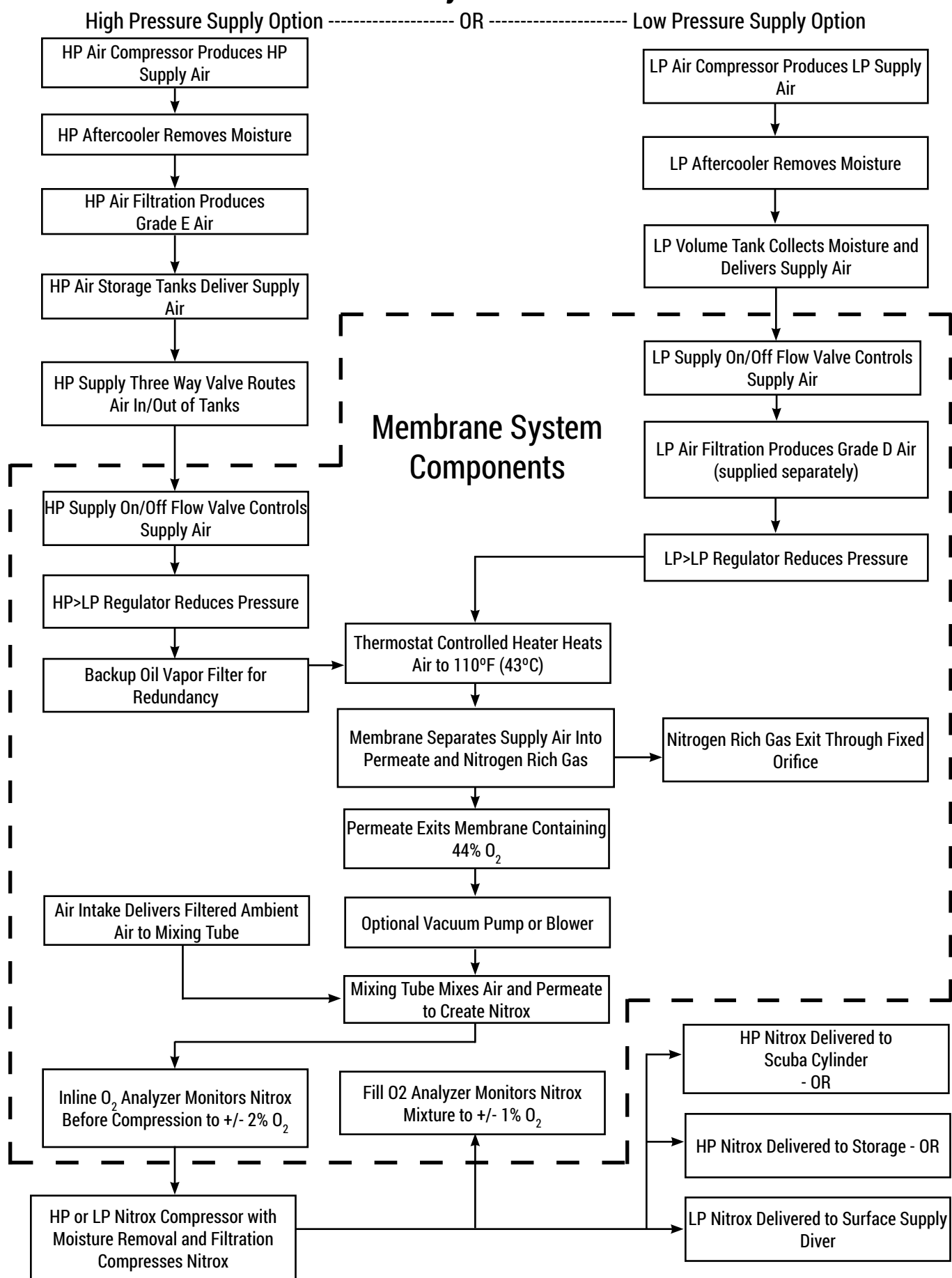
## Cost Effective

- Up to 20% more efficient than other Membrane Systems
- No oxygen or tank rental costs
- High volume output means no waiting for fills
- Easy maintenance
- Operates on Grade D or E Air
- Use your existing oil lubricated compressor (some compressors may not be suitable)
- No hidden costs

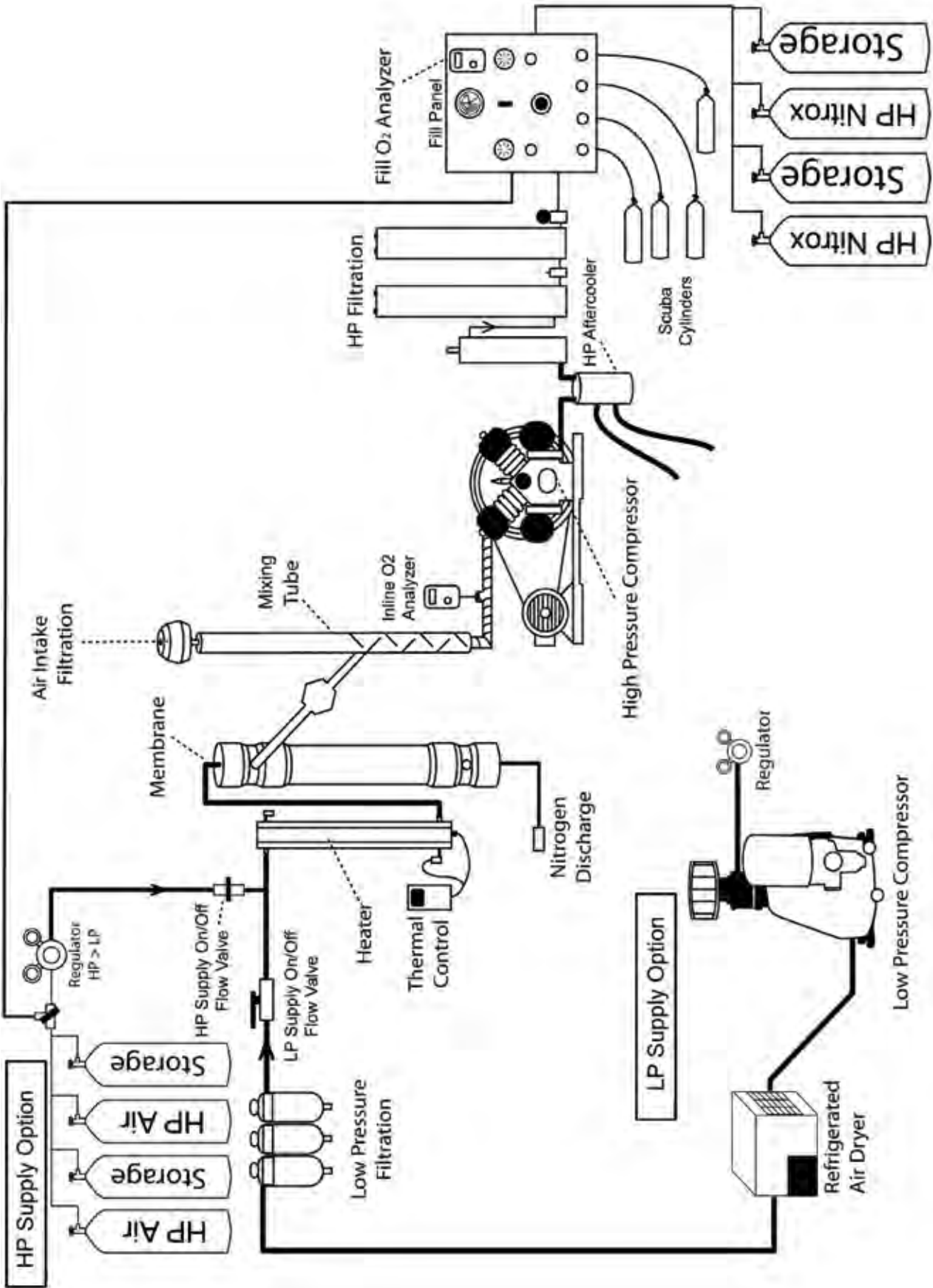
## Nuvair Membrane System



# Membrane System Flow Chart



# System Diagram





# Membrane System Selection Chart

Membrane Model		Nuvair 6 CFM	Nuvair 10 CFM	Nuvair 16 CFM	Nuvair 20 CFM	Nuvair 32 CFM	Nuvair 50 CFM
Physical Specifications	Length	44 in 1118 mm	46 in 1168 mm	66 in 1676 mm	46 in 1168 mm	66 in 1676 mm	66 in 1676 mm
	Height	30 in 762 mm	32 in 813 mm	32 in 813 mm	38 in 965 mm	38 in 965 mm	45 in 1143 mm
	Depth	6 in 152 mm	6 in 152 mm	6 in 152 mm	6 in 152 mm	6 in 152 mm	6 in 152 mm
	Shipping Weight	39 lb. 18 kg	44 lb. 20 kg	50 lb. 23 kg	58 lb. 27 kg	70 lb. 32 kg	90 lb. 41 kg
Temperature Requirements	Heater Electrical Specification	7 A @ 110 VAC, 5 A @ 220 VAC, 50 or 60 Hz	7 A @ 110 VAC, 5 A @ 220 VAC, 50 or 60 Hz	10 A @ 220 VAC, 50 or 60 Hz	10 A @ 220 VAC, 50 or 60 Hz	10 A @ 220 VAC, 50 or 60 Hz	10 A @ 220 VAC, 50 or 60 Hz
	Membrane Temperature	110 +/-5°F 43 +/- 3°C	110 +/-5°F 43 +/- 3°C	110 +/-5°F 43 +/- 3°C	110 +/-5°F 43 +/- 3°C	110 +/-5°F 43 +/- 3°C	110 +/-5°F 43 +/- 3°C
Input	Operating Pressure	80-170 psi 6-12 bar	80-170 psi 6-12 bar	80-170 psi 6-12 bar	80-170 psi 6-12 bar	80-170 psi 6-12 bar	80-170 psi 6-12 bar
	Maximum Input Pressure	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)
	Supply Air Volume Range	4-15 SCFM 106-425 L/min.	8-25 SCFM 212-708 L/min.	13-40 SCFM 354-1133 L/min.	20-50 SCFM 566-1416 L/min.	25-80 SCFM 708-2266 L/min.	40-125 SCFM 1133-3540 L/min.
	LP / HP Supply Air Quality	LP - Grade D HP - Grade E	LP - Grade D HP - Grade E	LP - Grade D HP - Grade E	LP - Grade D HP - Grade E	LP - Grade D HP - Grade E	LP - Grade D HP - Grade E
Output	Nitrox O <sub>2</sub> % Range	21-40%	21-40%	21-40%	21-40%	21-40%	21-40%

## Compressor Recommendations

LP Air Supply Compressor	Delivery @175 PSI for 40% O <sub>2</sub>	9-18 SCFM 255-510 L/min.	18-30 SCFM 510-850 L/min.	30-48 SCFM 850-1359 L/min.	48-60 SCFM 1359-1699 L/min.	60-96 SCFM 1699-2719 L/min.	96-150 SCFM 2719-4248 L/min.
	Horsepower - Electric	3-7.5 hp 2.3-5.6 kW	7.5-10 hp 5.6-7.5 kW	10-15 hp 7.5-11 kW	15-20 hp 11-15 kW	20-30 hp 15-23 kW	40-50 hp 30-38 kW
	Horsepower - Gas	5.5-9 hp 4.1-6.8 kW	11-13 hp 8.3-10 kW	20-24 hp 15-18 kW	N/A	N/A	N/A
	Horsepower - Diesel	5.5-9 hp 4.1-6.8 kW	10 hp 7.5 kW	27 hp 20 kW	27 hp 20 kW	40-50 hp 30-41 kW	54-75 hp 41-56 kW
HP Nitrox Compressor	Charging Rate	3-6 SCFM 85-170 L/min..	6-10 SCFM 170-283 L/min.	10-16 SCFM 283-453 L/min.	16-20 SCFM 453-566 L/min.	20-32 SCFM 566-906 L/min.	32-50 SCFM 906-1416 L/min.
	Horsepower - Electric	3-5 hp 2.3-3.8 kW	5-7.5 hp 3.8-5.6 kW	10-15 hp 7.5-11 kW	15-20 hp 11-15 kW	20-25 hp 15-19 kW	25-40 hp 19-30 kW
	Horsepower - Gas	5.5-6.5 hp 4.1-4.9 kW	6.5-11 hp 4.9-8.3 kW	13-18 hp 10-14 kW	20-24 hp 15-16 kW	N/A	N/A
	Horsepower - Diesel	6-6.7 hp 4.5-5.0 kW	9-10 hp 6.8-7.5 kW	11-18 hp 8.3-14 kW	18-27 hp 14-20 kW	27-35 hp 20-26 kW	35-50 hp 26-38 kW
LP Nitrox Compressor	Delivery @175 PSI	N/A	N/A	10-16 SCFM 283-453 L/min.	16-20 SCFM 453-566 L/min.	20-32 SCFM 566-906 L/min.	32-50 SCFM 906-1416 L/min.
	Horsepower - Electric	N/A	N/A	5 hp 3.8 kW	7.5 hp 5.6 kW	7.5-10 hp 5.6-7.5 kW	10-15 hp 7.5-11 kW
	Horsepower - Gas	N/A	N/A	9 hp 6.8 kW	11-13 hp 8.3-10 kW	13-18 hp 10-14 kW	20-24 hp 15-18 kW
	Horsepower - Diesel	N/A	N/A	9 hp 6.8 kW	10 hp 7.5 kW	27 hp 20 kW	27 hp 20 kW

## EAD Table

ACTUAL DEPTH	FO <sub>2</sub>	EAD	PPO <sub>2</sub>	O <sub>2</sub> LIMITS	Nitrox BOTTOM TIME	NAVY AIR BOTTOM TIME	% TIME INCREASED
40	36%	26.14	0.80	450	NO LIMIT	200	-
45	37%	29.20	0.87	360	NO LIMIT	100	-
50	37%	33.19	0.93	300	310	100	210%
55	39%	34.95	1.04	240	310	60	417%
60	40%	37.63	1.13	210	200	60	233%
65	40%	41.43	1.19	210	100	50	100%
70	40%	45.23	1.25	180	100	50	100%
70	38%	47.84	1.19	210	100	50	100%
75	40%	49.03	1.31	150	100	40	150%
75	36%	54.49	1.18	210	60	40	50%
80	40%	52.82	1.37	150	60	40	50%
80	35%	59.97	1.20	210	60	40	50%
85	39%	58.11	1.39	150	60	30	100%
85	33%	67.08	1.18	210	50	30	67%
90	37%	65.09	1.38	150	50	30	67%
90	34%	69.76	1.27	180	50	30	67%
95	36%	70.70	1.40	150	40	25	60%
95	31%	78.80	1.20	210	40	25	60%
100	34%	78.11	1.37	150	40	25	60%
100	33%	79.80	1.33	150	40	25	60%
105	33%	84.04	1.38	150	30	20	50%
105	30%	89.28	1.25	180	30	20	50%
110	32%	90.09	1.39	150	25	20	25%
110	30%	93.71	1.30	180	25	20	25%
115	31%	96.27	1.39	150	25	15	67%
115	30%	98.14	1.35	150	25	15	67%
120	30%	102.57	1.39	150	20	15	33%
120	27%	108.38	1.25	180	20	15	33%
125	29%	109.00	1.39	150	20	10	100%
130	26%	119.68	1.28	180	15	10	50%

This is a not to be used as a Dive Table. Please refer to published Dive Tables.

FO<sub>2</sub> = Oxygen Fraction

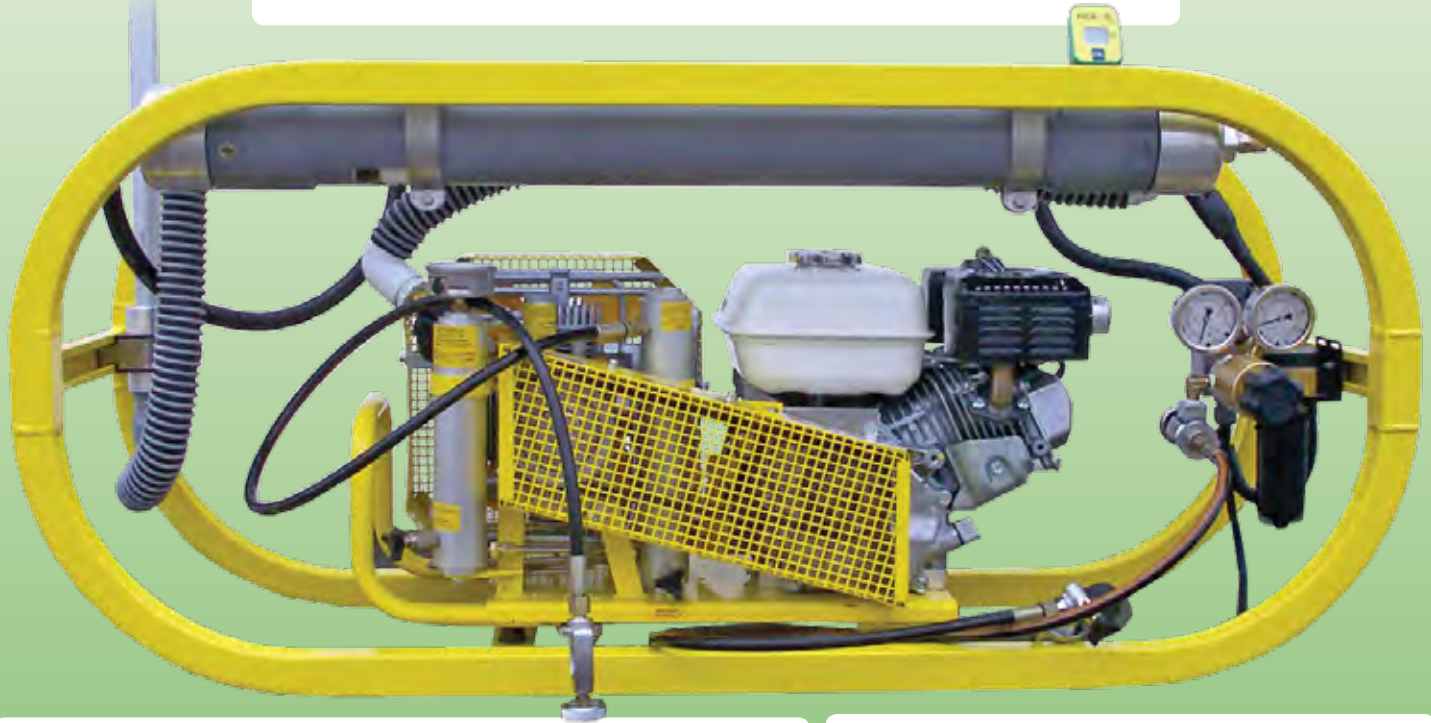
EAD = Equivalent Air Depth

PPO<sub>2</sub> = Partial Pressure of Oxygen

# Traveler™

## Advantages

- Pump HP Air or Nitrox Containing 21 – 40% Oxygen (Requires HP or LP supply air to pump Nitrox)
- None of the Costs, Hassles, or Hazards of O<sub>2</sub> Blending
- Uses HP Air from Scuba Cylinders or Storage Tanks to Make Nitrox
- Simple To Operate, Reliable, and Versatile
- Portable and Lightweight for Easy Transport



## Features

- 6 CFM Nitrox Membrane System with O<sub>2</sub> Analyzer
- Electric (Single/Three Phase) or Gas Power
- HP Compressor – Pump Air to 4500 psi, Nitrox to 3600 psi
- Rigid Powder Coated Welded Aluminum Frame
- Produces it's Own High Pressure Supply Air

## Options

- Automatic HP Condensate Drains
- Automatic Fill Pressure Stop
- High Temperature Shut Down
- Hour Meter
- Stainless Steel Compressor Frame

### Nitrox Traveler Model (Part#7051HP or 7051LP)

<b>Physical Specifications</b>	<b>Height</b> <b>Width</b> <b>Depth</b> <b>Weight</b>	22 in (56 cm) 51 in (130 cm) 16 in (41 cm) 134-140 lbs (61-64 kg)
<b>Full Load Amps</b>	<b>230 V - E3 - 50 or 60 Hz</b> <b>230 V - E1 - 50 or 60 Hz</b> <b>115 V - E1 - 50 or 60 Hz</b>	11 A 14-19 A 28 A
<b>Membrane Input</b>	<b>Operating Pressure</b> <b>Supply Air Volume</b> <b>Optimum Temperature</b>	90-165 psi (6-11 bar) 4-11 SCFM (113-312 L/min.) 110 +/- 5°F (43 +/- 3°C)
<b>HP Nitrox Compressor</b>	<b>Charging Rate</b> <b>Fill Time(80 Cu.. Ft.)</b> <b>Horsepower - Electric</b> <b>Horsepower - Gas</b>	3.4-4.2 SCFM (95-119 L/min.) 20-25 minutes 3-4 hp (2.2-3 kW) 5.5 hp (4 kW)

# Traveler II™

This complete turn key Nitrox System is built for the diver that wants to fill tanks while away from Dive Shops. With this system you can easily fill Nitrox or air while on remote locations (home, vacations or offshore).



Pictured with Optional Wheels and electric motor.



## Features

- Four Stage 4.2 SCFM\* High Pressure Compressor
- Fill O<sub>2</sub>% 21-40%
- Nuvaire 6 CFM Membrane System
- Pro O<sub>2</sub> Analyzer for Fill O<sub>2</sub>%
- Pick O<sub>2</sub> Analyzer for Permeate Inline O<sub>2</sub>%
- 110 or 220 Volt Thermostatically Controlled Heater
- LP > LP Regulator for O<sub>2</sub>% Adjustment
- LP Supply Pressure and Regulated Pressure Gauges
- Norgren Series 74 LP Filtration, Auto Drains/Dual Pressure Gauges, Coalescing 1.0 Micron, Polishing 0.01 Micron, Oil Vapor Removal 0.003 PPM
- 11 hp Honda Electric Start, 13 amp Charging Circuit
- Tach/Hour Meter
- 600 Watt Inverter
- 12 Volt Battery

## Options

- Automatic Condensate Drains
- High Temperature Shut Down
- Automatic Fill Pressure Shut Down
- Preset Maximum Fill Blocks  
3000 psi and 4500 psi
- Solar Charger
- Electric Motor, 220 Volt Single or Three Phase, 50 or 60 Hz

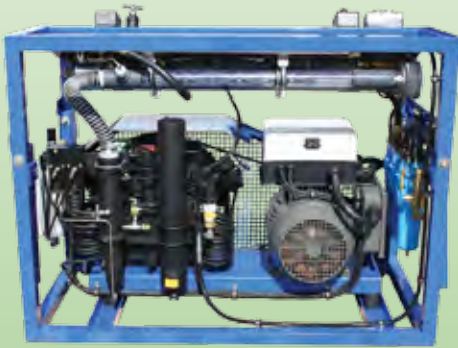
Nitrox Traveler II Model		Gas (Part# 7052G)	Electric (Part# 7052E)
Physical Specifications	Height	48 in (122 cm)	48 in (122 cm)
	Width	51 in (130 cm)	51 in (130 cm)
	Depth	20 in (51 cm)	20 in (51 cm)
	Weight	385 lbs (175 kg)	410 lbs (186 kg)
LP Compressor	Capacity @ 175 psi	12 CFM (340 L/min.)	12 CFM (340 L/min.)
Volume Tank	Capacity	15 gal (57L)	15 gal (57L)
Membrane Input	Operating Pressure	90-165 psi (6-11 bar)	90-165 psi (6-11 bar)
	Supply Air Volume Optimum Temperature	4-12 CFM (113-340 L/min.) 110 +/- 5° F (43 +/-3° C)	4-12 CFM (113-340 L/min.) 110 +/- 5° F (43 +/-3° C)
HP Nitrox Compressor	Output	3.5 CFM, F.A.D. (100 L/min.)	3.5 CFM, F.A.D. (100 L/min.)
	Charging Rate	4.2 SCFM*	4.2 SCFM*
	Fill Time (80 Cu.. Ft.)	22 minutes*	22 minutes*
	Horsepower - Electric	7.5 hp (5.5 kW)	7.5 hp (5.5 kW)
	Horsepower - Gas	11 hp (8.2 kW)	11 hp (8.2 kW)

\*Single 80 Cu.. Ft. cylinder from 500 - 3000 psi

# Element™ HP or LP

## Advantages

- Pump HP or LP Air or Nitrox Containing 21 – 40% Oxygen
- None of the Costs, Hassles, or Hazards of O<sub>2</sub> Blending
- Modular Design Offers Versatility and a Simple Upgrade Path
- Element HP Produces HP Nitrox from Existing HP Air Banks
- Element LP Adds Nitrox Capability to Existing HP Compressors
- Combine Both for Turnkey Nitrox Generating System



## Element HP Features

- 10 CFM Nitrox Membrane System with (2) O<sub>2</sub> Analyzers
- Electric (Single/Three Phase), Honda Gas or Yanmar Diesel
- Portable with (4) Integral Lifting Handles
- HP Compressor – Pump Air to 4500 psi, Nitrox to 3600 psi
- Fill Time 7.5 Minutes (80 Cu.. Ft. Tank, 500 to 3000 psi)
- Motor Starter/Electric Start
- Grade E Filtration

## Element LP Features

- 10 CFM Nitrox Membrane System with (2) O<sub>2</sub> Analyzers
- Electric (Single/Three Phase), Honda Gas or Yanmar Diesel
- Portable with (4) Integral Lifting Handles
- Supply Nitrox to an HP or LP Compressor
- Grade D LP Filtration for Membrane

## Options

- Automatic HP Condensate Drains
- Automatic Fill Pressure Stop
- Low Oil and/or High Temperature Shut Down
- HP Interstage Pressure Gauges
- Hour Meter

## Options

- Refrigerated Air Dryer
- High Temperature Shut Down
- Stainless Steel Enclosure
- Seawater/Water Cooled

Element Nitrox Model		Element HP	Element LP
Physical Specifications	Height	31 in (79 cm)	44 in (112 cm)
	Width	44 in (112 cm)	44 in (112 cm)
	Depth	23 in (58 cm)	23 in (58 cm)
	Weight	352-450 lbs (160-177 kg)	400-510 lbs (182-232 kg)
Full Load Amps	230 V - E3 - 50 or 60 Hz	25 A	25 A
	230 V - E1 - 50 or 60 Hz	39 A	39 A
LP Compressor	Capacity @ 175 psi	Requires 23 CFM Supply Air	23 CFM (665 L/min.)
Membrane Input	Operating Pressure	90-165 psi (6-11 bar)	90-165 psi (6-11 bar)
	Supply Air Volume	13-25 SCFM (354-708 L/min.)	8-25 SCFM (212-708 L/min.)
	Optimum Temperature	110 +/- 5° F (43 +/-3° C)	110 +/- 5° F (43 +/-3° C)
HP Nitrox Compressor	Charging Rate	9 SCFM (265 L/min.)*	6-10 SCFM (170-283 L/min.)*
	Horsepower - Electric	7.5 hp (5.5 kW)	5-7.5 hp (3.8-5.5 kW)
	Horsepower - Gas	9-11 hp (6.6-8.3 kW)	11-13 hp (8.3-9.7 kW)
	Horsepower - Diesel	9 hp (6.6 kW)	9-10 hp (6.6-7.5 kW)

\*Single 80 Cu.. Ft. cylinder from 500 - 3000 psi Specifications vary depending on motor or engine used to drive compressor.

# LP 280/420/560/713 Nitrox Generator™

## Advantages

- Simplest, Most Cost Effective Nitrox Systems Available
- Supply LP Nitrox Containing 21 – 40% Oxygen
- None of the Costs, Hassles, or Hazards of O<sub>2</sub> Blending
- Systems to Fit Most HP Compressors
- Rotary Screw LP Compressor Provides Quiet Operation and Low Maintenance

## LP 560 Shown



## LP 280 Shown



Pictured with Optional Nitrox Manager



## Features

- Nuvair Nitrox Membrane System with (2) O<sub>2</sub> Analyzers
- Automatic Shut Down for High Pressure and Temperature
- Automatic Condensate Drains
- Refrigerated Air Dryer for Long Filter Life
- Hankison LP Filtration for Membrane System
- Microprocessor Control or Manual Control for Managing Pressure, Temperature, Maintenance

Nitrox Generator Model		LP 280	LP 420	LP 560	LP 713
Part Number		7060**	7061**	7062**	7063**
<b>Physical Specifications*</b>	Height	48 in (122 cm)	76 in (193 cm)	63 in (125 cm)	74 in (188 cm)
	Width	59 in (150 cm)	52 in (132 cm)	59 in (132 cm)	61 in (155 cm)
	Depth	30 in (76 cm)	34 in (86 cm)	39 in (86 cm)	42 in (107 cm)
	Weight	635 lbs (288 kg)	872 lbs (396 kg)	875 lbs (406 kg)	1260 lbs (572 kg)
	Horsepower	10 hp (7.5 kW)	15 hp (11.2 kW)	20 hp (15 kW)	25 hp (18.6 kW)
<b>Full Load Amps</b>	440 V - E3 - 50 or 60 Hz	16 A	21 A	33 A	40 A
	380 V - E3 - 50 or 60 Hz	19 A	24 A	38 A	46 A
	230 V - E3 - 50 or 60 Hz	30 A	48 A	64 A	78 A
<b>LP Compressor</b>	Capacity @ 175 psi	30 CFM (850 L/min.)	44 CFM (1250 L/min.)	60 CFM (1700 L/min.)	80 CFM (2300 L/min.)
<b>Membrane Input</b>	Operating Pressure	90-175 psi (6-12 bar)	90-175 psi (6-12 bar)	90-175 psi (6-12 bar)	90-175 psi (6-12 bar)
	Supply Air Volume	8-30 SCFM (212-850 L/min.)	10-36 SCFM (280-1250 L/min.)	13-60 SCFM (354-1700 L/min.)	25-80 SCFM (708-2300 L/min.)
	Optimum Temperature	110 +/- 5° F (43 +/- 3° C)	110 +/- 5° F (43 +/- 3° C)	110 +/- 5° F (43 +/- 3° C)	110 +/- 5° F (43 +/- 3° C)
<b>Rated to Supply</b>	F.A.D. for 40% O <sub>2</sub>	10 CFM (280 L/min.)	15 CFM (420 L/min.)	20 CFM (560 L/min.)	25 CFM (713 L/min.)
	F.A.D. for 36% O <sub>2</sub>	12.5 CFM (350 L/min.)	19 CFM (530 L/min.)	25 CFM (707 L/min.)	31 CFM (877 L/min.)
	F.A.D. for 32% O <sub>2</sub>	17 CFM (480 L/min.)	26 CFM (730 L/min.)	34 CFM (970 L/min.)	43 CFM (1216 L/min.)

\*Model weight vary depending on Electric Motor Type

\*\*Part Number Does Not Include Voltage and Hertz , Customer must specify when ordering.

# LP 280/420/560/713 Marine Nitrox Generator™

## Advantages

- Made to Install Below Deck In Hot Engine Rooms
- Low Amperage Draw on Start
- Compact Size



LP 560 ME Shown



LP 280 ME Shown

## Features

- Heavy Duty Screw Compressor
- Wall Mount Membrane System
- Frequency Drive for Easy Start
- Heat Exchangers use Seawater for Air and Oil Cooling
- Manual BP Modulation Control for O<sub>2</sub> % Adjustment
- Compressor Only Pumps the Air Required
- Refrigerated Air Dryer
- Marine Grade Aluminum Frame with Stainless Steel Compressor Plate

## Options

- Nitrox Manager
- Marine Diesel Model
- Low/High O<sub>2</sub> Alarm or Shut Down
- Low/High CO Alarm or Shut Down
- Remote Operation Capability

Nitrox Generator Model		LP 280 ME	LP 420 ME	LP 560 ME	LP 713 ME
Part Number		7060ME**	7061ME**	7062ME**	7063ME**
<b>Physical Specifications*</b>	Height	41.5 in (105.4 cm)	49.5 in (125.7 cm)	49.5 in (125.7 cm)	54 in (137.1 cm)
	Width	27 in (68.6 cm)	27 in (68.6 cm)	27 in (68.6 cm)	30 in (76.2 cm)
	Depth	35 in (88.9 cm)	48 in (121.9 cm)	48 in (121.9 cm)	50 in (127 cm)
	Weight	565 lbs (256 kg)	685 lbs (311 kg)	685 lbs (311 kg)	760 lbs (345 kg)
	Horsepower	10 hp (7.5 kW)	15 hp (11.2 kW)	20 hp (15 kW)	25 hp (18.6 kW)
<b>Full Load Amps</b>	440 V - E3 - 50 or 60 Hz	16 A	21 A	33 A	40 A
	380 V - E3 - 50 or 60 Hz	19 A	24 A	38 A	46 A
	230 V - E3 - 50 or 60 Hz	30 A	48 A	64 A	78 A
<b>LP Compressor</b>	Capacity @ 175 psi	30 CFM (850 L/min.)	44 CFM (1250 L/min.)	60 CFM (1700 L/min.)	80 CFM (2300 L/min.)
<b>Membrane Input</b>	Operating Pressure	90-175 psi (6-12 bar)	90-175 psi (6-12 bar)	90-175 psi (6-12 bar)	90-175 psi (6-12 bar)
	Supply Air Volume	8-30 SCFM (212-850 L/min.)	10-36 SCFM (280-1250 L/min.)	13-60 SCFM (354-1700 L/min.)	25-80 SCFM (708-2300 L/min.)
	Optimum Temperature	110 +/- 5° F (43 +/-3° C)	110 +/- 5° F (43 +/-3° C)	110 +/- 5° F (43 +/-3° C)	110 +/- 5° F (43 +/-3° C)
<b>Rated to Supply</b>	F.A.D. for 40% O <sub>2</sub>	10 CFM (280 L/min.)	15 CFM (420 L/min.)	20 CFM (560 L/min.)	25 CFM (713 L/min.)
	F.A.D. for 36% O <sub>2</sub>	12.5 CFM (350 L/min.)	19 CFM (530 L/min.)	25 CFM (707 L/min.)	31 CFM (877 L/min.)
	F.A.D. for 32% O <sub>2</sub>	17 CFM (480 L/min.)	26 CFM (730 L/min.)	34 CFM (970 L/min.)	43 CFM (1216 L/min.)

\*Model Weight vary depending on Electric Motor Type

\*\*Part Number Does Not Include Voltage and Hertz , Customer must specify when ordering.

# Voyager™



## Advantages

- Complete State-of-the-Art LP/HP Nitrox Generating System
- Pump HP Air or Nitrox Containing up to 40% Oxygen
- None of the Costs, Hassles, or Hazards of O<sub>2</sub> Blending
- Simplest, Most Cost Effective Solution Available
- Semi-Silenced Enclosure to Reduce Operating Noise

## Features

- Fully Featured for Automatic Operation
- 10 CFM Nuvair Membrane System
- (2) O<sub>2</sub> Analyzers (Permeate and Fill O<sub>2</sub> Analyzer)
- Electric Power (Single or Three Phase)
- HP Compressor Pumps:
  - Air to 4500 psi Nitrox to 3600 psi
- LP Compressor Pumps Air to 175 psi for Membrane Supply
- Norgren LP Air Filtration
- Automatic Dial A Pressure (DAP) Shut Down
- Automatic LP/HP Condensate Drains
- Cabinet Temperature Gauge
- Push Button On/Off Motor Starters
- LP and HP Hour Meters
- External Oil Sight Gauge, Fill and Drain
- Cooling Fans
- High Cabinet Temperature Shut Down

## Options

- Trimix
- Low Oil Shut Down
- HP Filtration Upgrades
- LP Refrigerated Air Dryer for Extended LP Filter Life
- Carbon Monoxide Analyzer with Alarm
- HP Interstage Pressure Gauges

Nitrox Voyager - #7050		
<b>Physical Specifications</b>	Height	52 in (133 cm)
	Width	38 in (97 cm)
	Depth	49 in (125 cm)
	Weight	840 lbs (382 kg)
<b>Full Load Amps</b>	230V - E1 - 50 or 60 Hz**	53 A
	230V - E3 - 50 or 60 Hz	49 A
	400V - E3 - 50 or 60 Hz	28 A
<b>LP Compressor</b>	Capacity @ 175 psi Horsepower - Electric	23 CFM (665 L/min.) 7.5 hp (5.5 kW)
<b>Volume Tank</b>	Capacity	15 gal (57 L)
<b>Membrane Input</b>	Operating Pressure	90-170 psi (6-12 bar)
	Supply Air Volume	13-25 SCFM (354-708 L/min.)
	Optimum Temperature	110 +/- 5° F(43°C +/- 3°)
<b>HP Nitrox Compressor</b>	Output	8.4 CFM, F.A.D. (240 L/min.)
	Charging Rate	9.5 SCFM*
	Fill Time	8.5 minutes*
	Horsepower - Electric	7.5 hp (5.5 kW)

\* Single 80 Cu. Ft. cylinder from 500 - 3000 psi \*\* Only available with 2 x 5 hp Motors.



# Voyager™ II, III, IV Commercial Duty Nitrox Generating



## Advantages

- Complete State-of-the-Art LP and HP
- Nitrox Generating System
- Silenced and Enclosed for Cool and Quiet Operation
- Pump Air or Nitrox up to 40% O<sub>2</sub>

## Features

- Continuous Duty Compressors
- LP Rotary Screw Compressor with Intake Modulation Producing Variable LP Air Output
- Large LP Oil/Air Cooler with Exhaust Air Fan
- Refrigerated Air Dryer for Extended Filter Life
- Hankison LP Filtration (Four Filters with a 1000 hr Element Life)
- Nuair Membrane System
- Permeate and Fill O<sub>2</sub>% Analyzers
- HP Compressor Pumps:
  - ▶ Air to 6000 psi
  - ▶ Nitrox to 3600 psi
- Interstage Pressure Gauges
- 60,000 Cu.. Ft. HP Filtration
- Digital Cabinet Temperature Gauge
- Digital Heater Thermostat Control
- LP/HP Hour Meters
- Easy to Remove Side Panels for Maintenance
- High Pressure Shut Down
- High Temperature Shut Down
- Low Oil Shut Down
- LP and HP Condensate Drains

## Options

- Trimix
- Carbon Monoxide Analyzer
- Nitrox Manager
- 90,000 Cu.. Ft. filtration upgrade
- Dial-a-Pressure Shut Down
- High/Low O<sub>2</sub>% Automatic Shut Down
- Wheels

Nitrox Generator Model		Voyager II	Voyager III	Voyager IV
Physical Specifications	Height	70 in (178 cm)	70 in (178 cm)	70 in (178 cm)
	Width	68 in (173 cm)	68 in (173 cm)	68 in (173 cm)
	Depth	37 in (94 cm)	37 in (94 cm)	37 in (94 cm)
	Weight	1425 lbs (646 kg)	1474 lbs (669 kg)	1625 lbs (737 kg)
Full Load Amps	460V - E3 - 50 or 60 Hz	30 A	38.5 A	51 A
	400V - E3 - 50 or 60 Hz	35 A	44.5 A	59 A
	230V - E3 - 50 or 60 Hz	60 A	77 A	102 A
	230V - E1 - 50 or 60 Hz	79 A	N/A	N/A
LP Compressor	Capacity @ 175 psi Pump	30 CFM (850 L/min.) RVK 10	44 CFM (1250 L/min.) RVK 15	59 CFM (1670 L/min.) RVK 20
Horsepower	LP Compressor	10 hp (7.5 kW)	15 hp (11 kW)	20 hp (15 kW)
	HP Compressor	7.5 hp (5.5 kW)	10 hp (7.5 kW)	15 hp (11 kW)
HP Compressor	F.A.D. for 21% - 40% O <sub>2</sub>	9.3 CFM (263 L/min.)	11 CFM (311 L/min.)	17 CFM (481 L/min.)

**Nuvair LP Nitrox Surface Supply**



**LP > LP 12**



**R30 > R15**



**RVK > R15**



**RVK>Q325D Kubota**

**Features**

- Marine Grade Aluminum 6061 Frame
- Stainless Steel Compressor Plate
- Electric Start
- Hankison Filtration to 0.003 ppm Oil Vapor Removal
- Large Oil/Air Coolers
- Nuvair Nitrox Membrane System

**Options**

- High temperature shut down
- Low oil shut down
- Lifting eyes and fork lift slots
- Center lifting eye with added equipment protection
- Bottom inDrip in Pan
- Rotary screw vs Reciprocating Compressor
- Rotair, Quincy, Champion and/or ABAC compressors
- Honda Gas, Kohler Diesel or Electric
- High/Low O<sub>2</sub> Automatic Shut Down
- CO and/or CO<sub>2</sub> Analyzer
- Low Pressure Warning Alarm
- Certified Lifting Eyes

## Nuvair LP Nitrox Surface Supply

Nuvair LP>LP gas, diesel or electric powered Nitrox systems are built for direct surface supply of air or Nitrox at up to 36% O<sub>2</sub> to the diver. This page shows our 12-16 CFM models. Larger models are available on request. The frames are built with marine grade 6061 aluminum and have a stainless steel compressor/engine plate. This system is supplied in a turn key package ready to supply the diver and has two oxygen analyzers for complete easy and accurate operation.

Model		LP > LP 12 #7068	R30 > R15 #7069	RVK > R15 #7069D-RVK-R15	RVK > Q325D 7069D-RVK-325
Physical Specifications	Height	57 in (145 cm)	70 in (178 cm)	62 in (157 cm)	70 in (177.8 cm)
	Width	53 in (135 cm)	82 in (208 cm)	76 in (193 cm)	76 in (193 cm)
Supply Air LP Compressor	Depth	23 in (58 cm)	38 in (97 cm)	35 in (89 cm)	46.5 in (118.1 cm)
	Weight	624 lbs (284 kg)	1150 lbs (523 kg)	1400 lbs (636 kg)	2150 lbs (975.2 kg)
Nitrox (Divers Supply) LP Compressor	Make	Champion R15	Champion R30	Rotair RVK	Rotair RVK
	Maximum Pressure CFM (LPM) Output	175 PSI (12 bar) 23.5 (665 L/min.)	175 PSI (12 bar) 49 (1387 L/min.)	175 PSI (12 bar) 42 (1200 L/min.)	175 PSI (12 bar) 42 (1200 L/min.)
Air Volume Tank Size		30 Gallons	30 Gallons	30 Gallons	30 Gallons
Air Filtration Type		Norgren Series 74	Hankison Series 20	Hankison Series 20	Hankison Series 20
Membrane System		Nuvair 10	Nuvair 16	Nuvair 16	Nuvair 16
Heater Type		110 Volt Electric	110 Volt Electric	Air/Oil Heat Exchanger	
Inverter Size		700 Watt	700 Watt	N/A	
Nitrox (Divers Supply) LP Compressor	Make	ABAC	Champion R15	Champion R15	Quincy 325
	Maximum Pressure CFM (LPM)	150 PSI (10 bar) 12 (340 L/min.)	175 PSI (12 bar) 15 (425 L/min.)	175 PSI (12 bar) 16 (453 L/min.)	250 PSI (17 bar) 16 (453 L/min.)
Nitrox Volume Tank Size		N/A	30 Gallon	30 Gallon	30 Gallon
Nitrox Filtration Type		N/A	Hankison Series 20	Hankison Series 20	Hankison Series 20
Gas Engine Specifications	Make	Honda	Honda	N/A	N/A
	Power	20 hp (15 kW)	24 hp (17.9 kW)	N/A	N/A
Diesel Engine Specifications	Make	Kohler	Kohler	Kohler	Kubota
	Power	19 hp (15.2 kW)	28.5 hp (21.3 kW)	28.5 hp (21.3 kW)	37.4 hp (27.9 kW)
Fuel Tank Size		6.5 Gallons	15 Gallons	15 Gallons	15 Gallons
Electric Specifications	Make	WEG TEFC	WEG TEFC	WEG TEFC	WEG TEFC
	Power	15 hp (11.2 kW)	20 hp (15 kW)	25 hp (18.7 kW)	25 hp (18.7 kW)

# Quincy 390 > Nuvaair 26 D

## Advantages

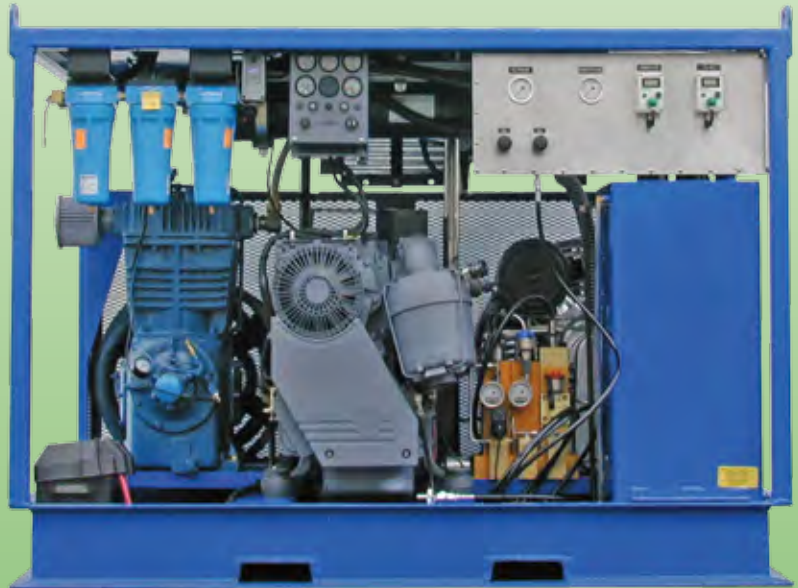
- Complete state-of-the-art LP/HP Nitrox Generating System
- Compressors can be used independently to provide HP or LP air, or together to provide HP Nitrox.
- Produces a constant flow of Nitrox from 22% to 40% @ 26.4 SCFM.

## Nitrox Membrane System

- (2) Pro O<sub>2</sub> Analyzers, One with In-line Sensor
- Air Intake Filter and Static Mixing Tube
- Auto Thermostatic Control - 220 Volt Heater
- Synthetic Food-Grade Compressor Lubricant for Nitrox Breathing Air Applications

## Features

- Coltri High Pressure MCH 36, 4 Stage, 4 Cylinder, Air Cooled, Oil Pressure Lubricated
- Interstage Pressure Gauges
- Automatic Shut-down
- HP Auto condensate drains
- L-Factor AF-531-112 HP Filtration
- Quincy 390, 2 Stage, Pressure Lubricated, Compressor with Low Oil Carry Over Rings
- LP Air Filtration: Hankison Series 24
  - Auto Drains/DP Gauges
  - Coalescing 1.0 micron
  - Fine Polishing .01 micron
  - Oil Vapor Removal .003 PPM
- Supplying LP Grade D and HP Grade E Air/Nitrox
- LP Back Pressure Regulator for O<sub>2</sub>% Adjustment
- Air Tank – 60 gallons
- Fuel – 50 Gallons
- Deutz Diesel FL1011 54hp @ 2800 RPM
- Twin Disc PTO Model C106SP5
- LP Auto condensate drain
- 2 KW Inverter
- Heavy Duty Frame with Vibration Isolated Inside Frame
- Powder Coated
- Stainless Steel Panel



**Q390 with 20 hp High Pressure Pictured**

## Options

- Quincy 370 with 21 SCFM HP Compressor
- RVK Rotary Screw Compressor\*
- Canvas Cover
- CO, CO<sub>2</sub>, and O<sub>2</sub> Analyzer with Alarm or Shut Down Capability
- Certified Lifting Eyes

\* No LP Volume Tank is required

Quincy 390 > Nuvaair 26 D Model			
Physical Specifications	Height		60 in (152.4 cm)
	Width		86 in (218.4 cm)
Compressors	Depth		54 in (137.2 cm)
	Weight		2900 lbs (1315 kg)
Compressors	LP	Capacity @ 175 psi	69 CFM (1954 L/min.)
	HP	Capacity @ 3600 psi	26.4 SCFM (748 L/min.)
Volume Tank	Capacity		60 gal (303 L)

# Quincy 390 > Nuair 26 E

## Advantages

- Complete state-of-the-art LP/HP Nitrox Generating System
- Compressors can be used independently to provide HP or LP air, or together to provide HP Nitrox.
- Produces a constant flow of Nitrox from 22% to 40% @ 26.4 SCFM.

## Nitrox Membrane System

- (2) Pro O<sub>2</sub> Analyzers, One with In-line Sensor
- Air Intake Filter and Static Mixing Tube
- Auto Thermostatic Control - 220 Volt Heater
- Synthetic Food-Grade Compressor Lubricant for Nitrox Breathing Air Applications

## Features

- Coltri High Pressure MCH 36, 4 Stage, 4 Cylinder, Air Cooled, Oil Pressure Lubricated Compressor
- HP Compressor and 20 hp motor  
Nitrox up to 3600psi @ 26.4 SCFM  
Air up to 6000psi @ 26.4 SCFM
- 60,000 of HP Filtration Grade E
- HP Auto condensate drains
- L-Factor AF-531-112 HP Filtration
- Quincy 390, 2 Stage, Pressure Lubricated, Compressor with Low Oil Carry Over Rings
- LP Air Filtration: Hankison Series 24
  - Auto Drains/DP Gauges
  - Coalescing 1.0 micron
  - Fine Polishing .01 microns
  - Oil Vapor Removal .003 PPM
- LP Back Pressure Regulator for O<sub>2</sub>% Adjustment
- Air Tank - 60 Gallon
- Supplying Grade D Air
- LP Compressor – 20 hp - 69 CFM@175psi
- 3 phase 220 or 440 Volt. With motor starter and on/off switch.
- Low Oil, High Temp, Automatic Shut-down
- LP Auto condensate drains
- Heavy Duty Frame with vibration isolated inside frame
- Stainless Steel Fill Panel
- Base Pan
- Lifting Eyes and Forklift Slots



**Q370 with 20 hp High Pressure Pictured**

## Options

- Quincy 370 with 21 SCFM HP Compressor
- RVK Rotary Screw Compressor\*
- Canvas Cover
- Refrigerated Dryer and Separator
- CO Analyzer with Alarm or Shut Down Capability
- CO<sub>2</sub> Analyzer with Alarm or Shut Down Capability
- O<sub>2</sub> Analyzer with Alarm or Shut Down Capability

\* No LP Volume Tank is required

Quincy 390 > Nuair 26 E Model			
Physical Specifications	Height	57 in (144.8 cm)	
	Width	80 in (203.2 cm)	
	Depth	48 in (121.9 cm)	
	Weight	2600 lbs (1179 kg)	
Full Load Amps	440V - E3 - 50 or 60 Hz	54 A	
	380V - E3 - 50 or 60 Hz	76 A	
	230V - E3 - 50 or 60 Hz	108 A	
Compressors	LP	Capacity @ 175 psi	69 CFM (1954 L/min.)
	HP	Capacity @ 3600 psi	26.4 SCFM (748 L/min.)
Volume Tank	Capacity		60 gal (303 L)

## Nuvair Commercial LP Nitrox 10 - 25 hp



LP 500D Pictured

### Features

- Nuvair Nitrox Membrane System
- Large Air/Oil Cooler
- Thermostat Controlled Air/Oil Heater
- Electric Start
- 12 V Charging System with 12 V Battery
- Hankison Filtration to .003 ppm Oil Vapor
- Auto Condensate Drains
- Regulator Controlled Pressure Modulation
- Simple to Operate, Reliable and Versatile
- Heavy Duty Square Tube Aluminum Offshore Frame with Vibration Isolated Inner Frame
- Stainless Steel Motor Plate



### Options

- Seawater Cooled Heat Exchanger
- Water Cooled Quiet Exhaust
- Powder Coated Frame
- Wheels on Frame
- 110/220 Volt Refrigerated Air Dryer
- Large Fuel Tank
- Lifting Eyes, Fork Lift Slots

## Nuvair Commercial LP Nitrox 10 - 25 hp

Gas or diesel powered Nitrox systems for use to supply another low pressure or high pressure compressor with Nitrox at up to 40% O<sub>2</sub>. The advantage of this package is it can normally be used with a compressor that you already own. The frames are built with 6061 Marine Grade Aluminum and the compressor plate is made with 316 stainless steel. All systems come with large air and oil coolers for better filtration and longer filter life.

Model		LP 280G	LP 280D	LP 420G	LP 420D	LP 500D
Part Number			<b>7056.2</b>	<b>7056.4</b>	<b>7056.3</b>	<b>7056.5</b>
Physical Specifications	Height	60 in (152 cm)	45 in (114 cm)	64 in (163 cm)	44 in (112 cm)	46 in (117 cm)
	Width	40 in (102 cm)	40 in (102 cm)	46 in (117 cm)	48 in (122 cm)	54 in (137 cm)
Supply Air LP Compressor	Depth	28 in (70.5 cm)	26 in (66 cm)	32 in (81 cm)	34 in (86 cm)	36 in (91 cm)
	Weight	450 lbs (204 kg)	572 lbs (260 kg)	620 lbs (280 kg)	671 lbs (305 kg)	796 lbs (361 kg)
Supply Air LP Compressor	Make	Rotair RVG	Rotair RVG	Rotair RVK	Rotair RVK	Rotair RVK
	Max Pressure CFM (LPM) Output	175 PSI (12 bar) 23 (651 L/min.)	175 PSI (12 bar) 32 (900 L/min.)	175 PSI (12 bar) 39 (1100 L/min.)	175 PSI (12 bar) 36 (1020 L/min.)	175 PSI (12 bar) 60 (1700 L/min.)
Air Filtration Type		Hankison Series 20	Hankison Series 20	Hankison Series 24	Hankison Series 24	Hankison Series 24
Membrane System		Nuvair 10	Nuvair 10	Nuvair 16	Nuvair 16	Nuvair 20
Air/Oil Heat Exchanger						
Heater Type						
Engine Specifications	Make & Type	Honda Gas	Kubota Diesel	Honda Gas	Kohler Diesel	Kohler Diesel
	Model Power	GX390U1QNR2 11 hp (8.2 kW) @ 3600 rpm	Z602 13 hp (10.4 kW)	GX670UTXF2 20.5 hp (15.3 kW) @ 3600 rpm	25LD425-2 19 hp (14 kW) @ 3600 rpm	9LD626-2 28.5 hp (21 kW) @ 3000 rpm
Fuel Tank Size		2.5 Gallons	4 Gallons	10 Gallons	10 Gallons	10 Gallons
Nitrox Supply	F.A.D. for 40 %	9 CFM (255 L/min.)	10 CFM (283 L/min.)	15 CFM (420 L/min.)	15 CFM (420 L/min.)	18 CFM (509 L/min.)
	F.A.D. for 36 %	12 CFM (340 L/min.)	12.5 CFM (350 L/min.)	19 CFM (530 L/min.)	19 CFM (530 L/min.)	22 CFM (623 L/min.)
	F.A.D. for 32 %	15.5 CFM (440 L/min.)	17 CFM (480 L/min.)	26 CFM (730 L/min.)	26 CFM (730 L/min.)	30 CFM (849 L/min.)

**Nuvair Nitrox Commercial HP in Electric, Gas or Diesel 10 - 20 hp**



**MCH36D Pictured**

**Features**

- Nuvair Nitrox Membrane System
- Pump HP Air or Nitrox Containing 21-40% Oxygen
- Coltri MCH 30 or 36 Block
- 4 Cylinder, 4 Stage, Air Cooled
- Interstage Pressure Gauges
- 3 Large Condensate Separators
- Large SS Interstage Cooling Tubes
- Low Pressure Oil Pump with Filter
- Oil Level Sight Gauge and Oil Pressure Gauge
- Automatic Condensate Drains
- Loadless Start
- Low Oil Shut Down Switch
- High Temp Switch set at 350° F
- Visual CO / Moisture Indicator
- Hour Meter
- Dual Filter Filtration (60,000 Cu.. Ft.)
- Electric Start
- 12 V 28 AH SLA Battery with Battery Box
- Marine Grade Aluminum Frame and Belt Guard
- Lifting Eyes and Fork Lift Slots

**Options**

- Automatic Pressure Shut Down
- Presec Electronic Moisture Monitor
- Upgraded Filtration (90,000 Cu.. Ft.)
- Remote Fill Panel
- Large Base Mount Fuel Tank
- High CO% Alarm or Shut Down
- Low/High O2% Alarm or Shut Down
- Honda Gas or Kohler Diesel Engine
- Electric Motor 220-440 V, 50/60 Hz
- Bottom Drip Pan
- Certified Lifting Eyes





## Nuvair Nitrox Commercial HP in Electric, Gas or Diesel 10 - 20 hp

Nuvair Nitrox Commercial HP		MCH30G	MCH30D	MCH36D
Physical Specifications	Height	44 in. (111.8 cm)	44 in. (111.8 cm)	44 in. (111.8 cm)
	Width	64 in. (162.8 cm)	64 in. (162.8 cm)	64 in. (162.8 cm)
	Depth	32 in. (81.3 cm)	32 in. (81.3 cm)	32 in. (81.3 cm)
Engine Specifications	Weight	710 lbs (322 kg)	760 lbs (345 kg)	900 lbs (408 kg)
	Make and Type	Honda Gas	Kohler Diesel	Kohler Diesel
	Model	GX670UTXF2	25LD425-2	9LD626-2
Fuel Tank Size	Power	20.5 hp (15.3 kW) @ 3600 rpm	19 hp (14 kW) @ 3600 rpm	28.5 hp (21 kW) @ 3000r pm
	Fuel Tank Size	6.5 Gallons	6.5 Gallons	10 Gallons
	LP Air Filtration Type	Hankison Series 24	Hankison Series 24	Hankison Series 24
Membrane System	Membrane Size	Nuvair 16	Nuvair 16	Nuvair 20
	Required LP Supply Air	21 - 50 CFM @ 90 - 175 PSI	21 - 50 CFM @ 90 - 175 PSI	26 - 63 CFM @ 90 - 175 PSI
	Optimum Temperature	110°F +/- 5° (43°C +/- 3°)	110°F +/- 5° (43°C +/- 3°)	110°F +/- 5° (43°C +/- 3°)
	Output	17.5 CFM (500 L/min.) FAD	17.5 CFM (500 L/min.) FAD	22 CFM (622 L/min.) FAD
HP Nitrox Compressors	Charging Rate	21 SCFM	21 SCFM	26.4 SCFM
	Fill Time (500 - 3000 PSI)	3.8 minutes	3.8 minutes	3.08 minutes
	Horsepower - Electric	15 hp (11.2 kW)	15 hp (11.2 kW)	20 hp (15 kW)

## Low Pressure Compressors

### Champion - Quincy - Rotair - Gas - Electric - Diesel

Nuvair offers a wide range of LP Compressors in standard and custom configurations. Check out our LP catalog or website for more information on our complete line of LP Compressors.



#### Features

- Yanmar, Kohler or Deutz Diesel Motors  
Honda Gas or WEG Electric
- Two Stage Reliable LP Compressor
- Head Un-loaders or Load Genie
- Air Cooler and ASME Rated Volume Tank
- Hankison Filtration to .003 PPM Oil Vapor
- Rigid Square Aluminum or Steel Frames
- Vibration Mounts
- 7 CFM to 105 CFM
- Forklift Slots and Lifting Eyes

#### Options

- Low Pressure Regulator for Down Stream Pressure
- Automatic Condensate Drains
- Stainless Steel Frame
- Stainless Steel Volume Tank
- CO, CO<sub>2</sub> and/or O<sub>2</sub> Analyzers
- Nitrox Delivery Options
- Semi-Portable and Lightweight with wheels
- Diver Manifold Options



## Coltri/Nuvair Portable

The compact dimensions and light weight of this compressor make it very easy to transport and operate. These compressors are ideal for filling cylinders at home, on boats or on dive trips. Fill hose and air filtration system included.



*Stainless Steel Option Pictured*



### Features

- Excellent Portability
- 4500 PSI Max Pressure
- Grade E Breathing Air Filtration
- Hour Meter Standard on Gas Unit

### Options

- Pressure Switch
- Automatic Condensate Drains
- Hour Meter
- Stainless Steel Frame
- Visual CO/Moisture Indicator
- Inverter Drive for use with Smaller Generators

The MCH6 is designed for filling Paintball, SCUBA or SCBA tanks one at a time. The compressors are not engineered or manufactured for continuous duty filling of storage tanks or cascade systems of any kind.

Model	MCH6 / 3 E	MCH6 / 3.5 E	MCH6 / 3.5 G
Filling Time*	Approx. 23 Minutes	Approx. 19 Minutes	Approx. 19 Minutes
Cubic Feet/Minute	2.8 FAD 3.4 SCFM*	3.5 FAD 4.2 SCFM*	3.5 FAD 4.2 SCFM*
Liters/Minute	80 FAD	100 FAD	100 FAD
Motor Options	Single Phase Electric	Three Phase Electric	Honda Gas (Part# 8013)
115 V - E1 - 50 or 60 Hz	28 Amp (Part# 8015)**	N/A	
230 V - E1 - 50 or 60 Hz	14 Amp (Part# 8014.1)**	N/A	
230 V - E3 - 50 or 60 Hz	N/A	11 Amp (Part# 8016.2)**	N/A
Driven by	3 hp (2.2 kW)	4 hp (3 kW)	6.5 hp (4.85 kW)
Max Operating Pressure	4500 PSI (310 bar)	4500 PSI (310 bar)	4500 PSI (310 bar)
RPM	2240	2800	2800
Number of Stages	4	4	4
Number of Fill Hoses	1	1	1
Condensate Drain	Manual	Manual	Manual
Sound Level @ 3 Meters	82 dB	83 dB	87 dB
Dimensions: (H x W x D)	15.5 in x 26.5 in x 15 in (39 x 67 x 38 cm)	15 in x 26 in x 15 in (38 x 65 x 38 cm)	15 in x 31 in x 14 in (38 x 79 x 36 cm)
Weight	90 lbs (41 kg)	88 lbs (40 kg)	84 lbs (38 kg)
Lubrication	Splash Lubrication, capacity 11 oz.		
Air Quality	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021		

\* Single 80 Cu.. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

# Coltri/Nuvair Compact Portable

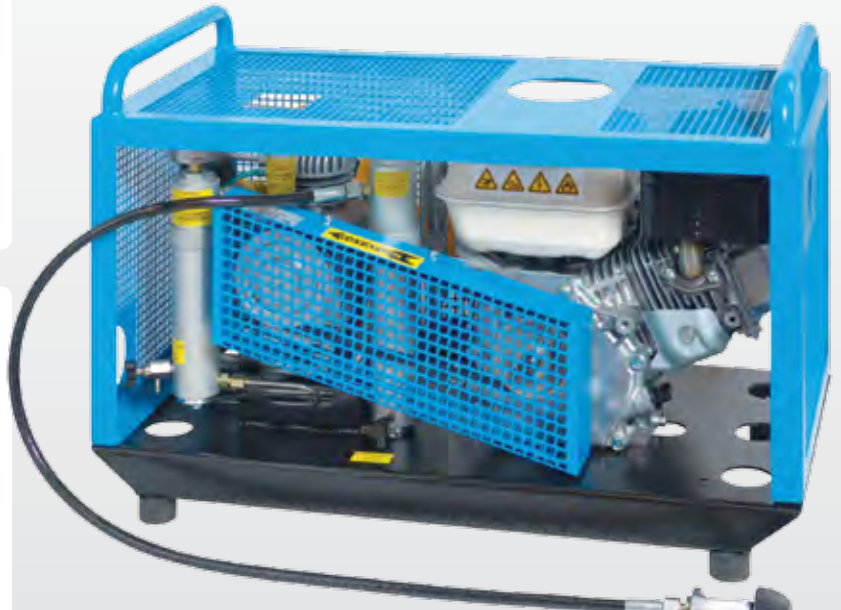
The sturdy enclosure and easily accessible lifting handles on this series of compressors makes it ideal for portable applications. It is available in a full range of electric and gas power for filling cylinders at home, at the dive shop or on boats. Fill hose and air filtration system included.

## Features

- Excellent Portability
- 4500 PSI Max Pressure
- Grade E Breathing Air Filtration
- Hour Meter Standard on Gas Unit
- Protective Frame

## Options

- Pressure Switch
- Automatic Condensate Drains
- Hour Meter
- Stainless Steel Frame
- Visual CO/Moisture Indicator
- Inverter Drive for use with Small Generators



The MCH6 is designed for filling Paintball, SCUBA or SCBA tanks one at a time. The compressors are not engineered or manufactured for continuous duty filling of storage tanks or cascade systems of any kind.

Model	MCH6 / 3 E	MCH6 / 3.5 E	MCH6 / 3.5 G
<b>Filling Time*</b>	Approx. 23 Minutes	Approx. 19 Minutes	Approx. 19 Minutes
<b>Cubic Feet/Minute</b>	2.8 FAD 3.4 SCFM*	3.5 FAD 4.2 SCFM*	3.5 FAD 4.2 SCFM*
<b>Liters/Minute</b>	80 FAD	100 FAD	100 FAD
<b>Motor Options</b>	Single Phase Electric	Three Phase Electric	Honda Gas (Part# 8013-C)
<b>115 V - E1 - 50 or 60 Hz</b>	28 Amp (Part# 8015-C)**	N/A	
<b>230 V - E1 - 50 or 60 Hz</b>	14 Amp (Part# 8014.1-C)**	N/A	
<b>230 V - E3 - 50 or 60 Hz</b>	N/A	11 Amp (Part# 8016.2-C)**	N/A
<b>Driven by</b>	3 hp (2.2 kW)	4 hp (3 kW)	6.5 hp (4.85 kW)
<b>Max Operating Pressure</b>	4500 PSI (310 bar)	4500 PSI (310 bar)	4500 PSI (310 bar)
<b>RPM</b>	2240	2800	2800
<b>Number of Stages</b>	4	4	4
<b>Number of Fill Hoses</b>	1	1	1
<b>Condensate Drain</b>	Manual	Manual	Manual
<b>Sound Level @ 3 Meters</b>	82 dB	83 dB	87 dB
<b>Dimensions: (H x W x D)</b>	19 in x 29 in x 14.5 in (48 x 74 x 37 cm)	19 in x 29 in x 14.5 in (48 x 74 x 37 cm)	19 in x 29 in x 14.5 in (48 x 74 x 37 cm)
<b>Weight</b>	110 lbs (50 kg)	108 lbs (49 kg)	108 lbs (49 kg)
<b>Lubrication</b>	Splash Lubrication, capacity 11 oz.		
<b>Air Quality</b>	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021		

\* Single 80 Cu.. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

## Coltri/Nuvair Standard Electric

The Nuvair Standard Electric uses a pumping unit that is made from top quality materials; connecting rods from aluminum alloy, stainless steel intercoolers and aftercoolers that are more than four meters in length, and cylinders of special cast iron. The electric motor uses an aluminum housing to keep weight to a minimum, making the station very compact.

### Features

- 5000 PSI Max Pressure
- Grade E Filtration
- 2 Fill Whips
- Electric
- Stainless Steel Intercoolers

### Options

- Motor Starter
- Automatic Condensate Drains
- Pressure Switch
- Hour Meter
- High Temp Shut Down
- Low Oil Shut Down
- Interstage Pressure Gauges
- Stainless Frame
- Visual CO/Moisture Indicator



Model	MCH13 / 5	MCH13 / 7	MCH16 / 9
<b>Filling Time*</b>	Approx. 11 Minutes	Approx. 9 Minutes	Approx. 7.4 Minutes
<b>Cubic Feet/Minute</b>	4.7 FAD 6.6 SCFM*	7.6 FAD 8.9 SCFM*	9.4 FAD 10.8 SCFM*
<b>Liters/Minute</b>	135 FAD	215 FAD	265 FAD
<b>Motor Options</b>	Single or Three Phase	Single or Three Phase	Single or Three Phase
<b>230 V - E1 - 50 or 60 Hz</b>	19 Amp	25 Amp (Part# 8020.1)**	34 Amp (Part# 8022.1)**
<b>230 V - E3 - 50 or 60 Hz</b>	11 Amp	14 Amp (Part# 8019.2)**	20 Amp (Part# 8022.2)**
<b>440 V - E3 - 50 or 60 Hz</b>	N/A	7 Amp (Part# 8019.3)**	10 Amp (Part# 8022.3)**
<b>Driven by</b>	4 hp (3 kW)	5.5 hp (4 kW)	7.5 hp (5.5 kW)
<b>Max Operating Pressure</b>	5000 PSI (345 bar)	5000 PSI (345 bar)	5000 PSI (345 bar)
<b>RPM</b>	890	1350	1550
<b>Number of Stages</b>	3	3	3
<b>Number of Fill Hoses</b>	2	2	2
<b>Condensate Drain</b>	Manual	Manual	Manual
<b>Sound Level @ 3 Meters</b>	79 dB	81 dB	82 dB
<b>Dimensions: (H x W x D)</b>	25 in x 34 in x 18 in (64 x 86 x 45 cm)	25 in x 34 in x 18 in (64 x 86 x 45 cm)	25 in x 34 in x 18 in (64 x 86 x 45 cm)
<b>Weight</b>	218 lbs (99 kg)	218 lbs (99 kg)	218 lbs (99 kg)
<b>Lubrication</b>	Splash Lubrication, capacity 1.6 qts.		
<b>Air Quality</b>	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021		

\* Single 80 Cu.. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

## Coltri/Nuvair Mini Tech

The Mini Tech is our go to Compressor set up for a wide variety of applications in both breathing air and industrial air use. Compact design and fold away handles make for easy lifting and portability of the compressor. On board Grade E air purification insures breathing air quality standards. A wide variety of customized options to meet individual needs are noted on the options list below.

### Features

- 5000 PSI Max Pressure
- Grade E Filtration
- 2 Fill Whips
- Electric or Honda Gas or Diesel Motor
- Stainless Steel Intercoolers
- 4 Lifting Handles
- All important parts are protected inside frame
- Superior Vibration Isolation



pictured with multiple options

optional stainless

### Options

- Motor Starter/Electric Start
- Automatic Condensate Drains
- Pressure Switch
- Hour Meter
- High Temp Shut Down
- Upgraded Filtration
- Stainless Frame
- Lifting Eyes
- Low Oil Shut Down
- Tropical Block w/ Oil Pump
- Visual CO/Moisture Indicator
- Interstage Pressure Gauges

Model	MCH13 / 7	MCH16 / 9
Filling Time*	Approx. 9 Minutes	Approx. 7.4 Minutes
Cubic Feet/Minute	7.6 FAD 8.9 SCFM*	9.4 FAD 10.8 SCFM*
Liters/Minute	215 FAD	265 FAD
Motor Options	Single or Three Phase	Single or Three Phase
230 V - E1 - 50 or 60 Hz	25 Amp 5.5 hp (4 kW) (Part# 8040.1)**	34 Amp 7.5 hp (5.5 kW) (Part# 8037.1)**
230 V - E3 - 50 or 60 Hz	14 Amp 5.5 hp (4 kW) (Part# 8040.2)**	20 Amp 7.5 hp (5.5 kW) (Part# 8037.2)**
440 V - E3 - 50 or 60 Hz	7 Amp 5.5 hp (4 kW) (Part# 8040.3)**	10 Amp 7.5 hp (5.5 kW) (Part# 8037.3)**
Honda Gas	8.5 hp (6.3 kW) (Part# 8039)	11.7 hp (8.7 kW) (Part# 8038)
Yanmar Diesel	N/A	10 hp (7.5kW) (Part# 8038-DY)
Kohler Diesel	N/A	10 hp (7.5kW) (Part# 8038-DL)
Max Operating Pressure	5000 PSI (345 bar)	5000 PSI (345 bar)
RPM	1350	1550
Number of Stages	3	3
Number of Fill Hoses	2	2
Condensate Drain	Manual	Manual
Sound Level @ 3 Meters	81 dB	80-96 dB
Dimensions: (H x W x D)	25 3/4 in x 45 3/4 in x 22 1/4 in (61 x 114 x 56 cm)	
Weight	320-421 lbs (145-191 kg)	
Lubrication	Splash Lubrication, capacity 1.6 qts.	
Air Quality	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021	

\* Single 80 Cu.. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

# Coltri/Nuvair 250

The Tech 250 has the features of the Mini Tech plus a panel for gauges, fill whips or anything else that you would like mounted on it. There is also extra room for upgraded filtration.

## Features

- 5000 PSI Max Pressure
- Grade E Filtration
- 2 Fill Whips
- Electric or Honda Gas Motor
- Stainless Steel Intercoolers
- 4 Lifting Handles
- All Important Parts are Protected Inside Frame
- Superior Vibration Isolation
- Gauge Panel
- Removable Air Intake Snorkel

## Options

- Motor Starter/Electric Start
- Automatic Condensate Drains
- Pressure Switch
- Hour Meter
- High Temp Shut Down
- Low Oil Shut Down
- Interstage Pressure Gauges
- Stainless Frame
- Visual CO/Moisture Indicator
- Upgrade Filtration



Model	MCH16 / 250
Filling Time*	Approx. 7.4 Minutes
Cubic Feet/Minute	9.4 FAD 10.8 SCFM*
Liters/Minute	265 FAD
Motor Options	Single or Three Phase
230 V - E1 - 50 or 60 Hz	34 Amp 7.5 hp (5.5 kW) (Part# 8030.1)
230 V - E3 - 50 or 60 Hz	20 Amp 7.5 hp (5.5 kW) (Part# 8031.2)
440 V - E3 - 50 or 60 Hz	10 Amp 7.5 hp (5.5 kW) (Part# 8031.3)
Honda Gas (Electric Start)	11.7 hp (8.7 kW) (Part# 8027-EL)
Yanmar Diesel (Electric Start)	10 hp (7.5kW) (Part# 8028-DY-EL)
Kohler Diesel (Electric Start)	10 hp (7.5kW) (Part# 8029-DL-EL)
Max Operating Pressure	5000 PSI (345 bar)
RPM	1550
Number of Stages	3
Number of Fill Hoses	2
Condensate Drain	Manual
Sound Level @ 3 Meters	80-96 dB
Dimensions: (H x W x D)	31 in x 44 in x 23 in (79 x 112 x 58 cm)
Weight	320-421 lbs (145-191 kg)
Lubrication	Splash Lubrication, capacity 1.6 qts.
Air Quality	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021

\* Single 80 Cu.. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

## Coltri/Nuvair Compact & EVO (Models 7 and 9)

The Compact Series includes a semi-sound proofed filling station. The compressor switches off automatically when the pressure level set by the operator is reached. Condensate is discharged automatically. External access simplifies oil level monitoring and changes. The Compact is also offered as an EVO model with Interstage Pressure Gauges, High Temp, and Low Oil Shutdown included.

### Features

- Motor Starter
- Automatic Condensate Drains
- Dial-A-Pressure Switch
- Hour Meter
- Semi-Sound Proofed Cabinet
- External Oil Sight Gauge
- Grade E Filtration
- Automatic Stop

### Options (included on EVO models)

- Interstage Pressure Gauges
- High Temp Shut Down
- Low Oil Shut Down
- Visual CO/Moisture Indicator



Model	MCH13 / 7	MCH16 / 9
<b>Filling Time*</b>	Approx. 9 Minutes	Approx. 7.4 Minutes
<b>Cubic Feet/Minute</b>	7.6 FAD 8.9 SCFM*	9.4 FAD 10.8 SCFM*
<b>Liters/Minute</b>	215 FAD	265 FAD
<b>Motor Options</b>	Single or Three Phase	Single or Three Phase
<b>230 V - E1 - 50 or 60 Hz</b>	25 Amp	34 Amp (Part# 8033.1)**
<b>230 V - E3 - 50 or 60 Hz</b>	14 Amp	20 Amp (Part# 8032.2)**
<b>440 V - E3 - 50 or 60 Hz</b>	7 Amp	10 Amp (Part# 8032.3)**
<b>Motor Power</b>	5.5 hp (4 kW)	7.5 hp (5.5 kW)
<b>Max Operating Pressure</b>	5000 PSI (345 bar)	5000 PSI (345 bar)
<b>RPM</b>	1350	1550
<b>Number of Stages</b>	3	3
<b>Number of Fill Hoses</b>	2	2
<b>Condensate Drain</b>	Automatic	Automatic
<b>Fill Pressure Stop</b>	Automatic	Automatic
<b>Sound Level @ 3 Meters</b>	79 dB	81 dB
<b>Dimensions***: (H x W x D)</b>	33 in x 35 in x 24 in (84 x 89 x 60 cm)	33 in x 41.5 in x 28 in (84 x 89 x 60 cm)
<b>Weight</b>	310-400 lbs (141-181 kg)	332-430 lbs (151-195 kg)
<b>Lubrication</b>	Splash Lubrication, capacity 1.6 qts.	
<b>Air Quality</b>	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021	

\*\*\*Single phase enclosure 33 in x 42 in x 28 in (84 x 105 x 70 cm)

\*Single 80 Cu. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model



## Coltri/Nuvair Compact (Models 14 and 18)

The filling station utilizes two completely independent compressors for reliability and versatility. Operation is fully automatic and up to four cylinders can be filled simultaneously as well as storage banks. The container is lined with a sound reduction material which limits noise. The Compact can be used with our LP280 to produce Nitrox you can pump 18 CFM at 32% using both compressors, or up to 40% at 9 CFM using one compressor.

### Features

- Motor Starter
- Automatic Condensate Drains
- Dial-A-Pressure Switch
- Hour Meter
- Semi-Sound Proofed Cabinet
- External Oil Sight Gauge
- Grade E Filtration
- Automatic Stop

### Options:

- Visual CO/Moisture Indicator
- Additional Filtration



Model	MCH26 / 14	MCH32 / 18
<b>Filling Time*</b>	Approx. 4.5 Minutes	Approx. 3.7 Minutes
<b>Cubic Feet/Minute</b>	14.8 FAD 17.8 SCFM*	18.4 FAD 21.6 SCFM*
<b>Liters/Minute</b>	420 FAD	520 FAD
<b>Motor Options</b>	Single or Three Phase	Three Phase
<b>230 V - E1 - 50 or 60 Hz</b>	2 x 25 Amp	N/A
<b>230 V - E3 - 50 or 60 Hz</b>	2 x 14 Amp	2 x 20 Amp (Part# 8036.2)**
<b>440 V - E3 - 50 or 60 Hz</b>	2 x 7 Amp	2 x 10 Amp (Part# 8036.3)**
<b>Motor Power</b>	2 x 5.5 hp (4 kW)	2 x 7.5 hp (5.5 kW)
<b>Max Operating Pressure</b>	5000 PSI (345 bar)	5000 PSI (345 bar)
<b>RPM</b>	1350	1550
<b>Number of Stages</b>	3	3
<b>Number of Fill Hoses</b>	4	4
<b>Condensate Drain</b>	Automatic	Automatic
<b>Fill Pressure Stop</b>	Automatic	Automatic
<b>Sound Level @ 3 Meters</b>	72 dB	75 dB
<b>Dimensions: (H x W x D)</b>	53 in x 35 in x 34 in (133 x 89 x 85 cm)	53 in x 35 in x 34 in (133 x 89 x 85 cm)
<b>Weight</b>	629 lbs (286 kg)	673 lbs (306 kg)
<b>Lubrication</b>	Splash Lubrication, capacity 2 x 1.6 qts.	
<b>Air Quality</b>	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021	

\* Single 80 Cu.. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

## Coltri/Nuvair Mini Silent

The Mini Silent Series uses a very compact, sound proofed container. Completely automatic operation ensures that the compressor switches off when the maximum pressure set on the dial a pressure switch is reached. The condensate periodically drains through automatic pneumatic valves into a collection tank. Due to it's small footprint this compressor is great for use in boats and shops.

### Features:

- Motor Starter
- Automatic Condensate Drains
- Dial-A-Pressure Switch
- Hour Meter
- Sound Proof Cabinet
- External Oil Sight Gauge
- Grade E Filtration
- Automatic Stop

### Options:

- Interstage Pressure Gauges
- High Temp Shut Down
- Low Oil Shut Down
- Visual CO/Moisture Indicator
- Additional Filtration



Model	MCH13 / 7	MCH16 / 9
Filling Time*	Approx. 9 Minutes	Approx. 7.4 Minutes
Cubic Feet/Minute	7.6 FAD 8.9 SCFM*	9.4 FAD 10.8 SCFM*
Liters/Minute	215 FAD	265 FAD
Motor Options	Single or Three Phase	Three Phase
230 V - E1 - 50 or 60 Hz	25 Amp	N/A
230 V - E3 - 50 or 60 Hz	14 Amp	20 Amp (Part# 8034.2)**
440 V - E3 - 50 or 60 Hz	7 Amp	10 Amp (Part# 8034.3)**
Motor Power	5.5 hp (4 kW)	7.5 hp (5.5 kW)
Max Operating Pressure	5000 PSI (345 bar)	5000 PSI (345 bar)
RPM	1350	1550
Number of Stages	3	3
Number of Fill Hoses	2	2
Condensate Drain	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic
Sound Level @ 3 Meters	72 dB	75 dB
Dimensions: (H x W x D)	42 in x 28 in x 25 in (105 x 70 x 62 cm)	42 in x 28 in x 25 in (105 x 70 x 62 cm)
Weight	390 lbs (177 kg)	410 lbs (187 kg)
Lubrication	Splash Lubrication, capacity 1.6 qts.	
Air Quality	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021	

\*Single 80 Cu. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

## Coltri/Nuvair Super Silent EVO

The Super Silent EVO has been sound-proofed so well that only a sound level under 70 dB can be heard from just a few feet away. It is a fully automatic station with a complete range of instrumentation for ease of operation. The pump is a three-stage unit with cylinders made of special heavy duty cast iron. The compressed air is cooled with a stainless steel aftercooler that ensures the air entering the filter system is only 25° F hotter than the intake air. There are safety relief valves for each stage of compression. It has two condensate separators and one filter chamber with a replaceable cartridge. This ensures the air compressed into the cylinders is clean and free of contaminates.

### Features:

- Motor Starter
- Automatic Condensate Drains
- Dial-A-Pressure Switch
- Hour Meter
- Interstage Pressure Gauges
- High Temp Shut Down
- Low Oil Shut Down with External Sight Gauge
- Sound-Proofed Cabinet
- Grade E Filtration
- Automatic Stop

### Options:

- Visual CO/Moisture Indicator
- Additional Filtration



Model	MCH13 / 7	MCH 16 / 9
<b>Filling Time*</b>	Approx. 9 Minutes	Approx. 7.4 Minutes
<b>Cubic Feet/Minute</b>	7.6 FAD 8.9 SCFM*	9.4 FAD 10.8 SCFM*
<b>Liters/Minute</b>	215 FAD	265 FAD
<b>Motor Options</b>	Single or Three Phase	Three Phase
<b>230 V - E1 - 50 or 60 Hz</b>	25 Amp	N/A
<b>230 V - E3 - 50 or 60 Hz</b>	14 Amp	20 Amp (Part# 8035.2)**
<b>440 V - E3 - 50 or 60 Hz</b>	7 Amp	10 Amp (Part# 8035.3)**
<b>Motor Power</b>	5.5 hp (4 kW)	7.5 hp (5.5 kW)
<b>Max Operating Pressure</b>	5000 PSI (345 bar)	5000 PSI (345 bar)
<b>RPM</b>	1350	1550
<b>Number of Stages</b>	3	3
<b>Number of Fill Hoses</b>	2	2
<b>Condensate Drain</b>	Automatic	Automatic
<b>Fill Pressure Stop</b>	Automatic	Automatic
<b>Sound Level @ 3 Meters</b>	66 dB	69 dB
<b>Dimensions: (H x W x D)</b>	54 in x 36 in x 35 in (137 x 90 x 87 cm)	54 in x 36 in x 35 in (137 x 90 x 87 cm)
<b>Weight</b>	466 lbs (177 kg)	488 lbs (187 kg)
<b>Lubrication</b>	Splash Lubrication, capacity 1.6 qts.	
<b>Air Quality</b>	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021	

\*Single 80 Cu. Ft. cylinder from 500 to 3000 PSI

\*\* Part number reflects 60Hz Model. Inquire about 50 Hz Model

## Coltri/Nuvair 26 Open

The 26 Open package is designed for high use in hot humid conditions and is rated for continuous duty use up to 6000psi. It has the MCH36 four stage compressor block with a 26.4SCFM charging rate. Purchase, maintenance and operation costs are significantly lower than similar sized compressors in the market place.

### Features

- Open configuration for easy access and cool running
- Operation Panel with start/stop, "dial a pressure" automatic shut down, condensate test button, high temperature display, automatic shut down for high temperature and low oil, phase control (proper rotation) recognition, wrong voltage recognition, hour meter, stage and oil pressure gauges
- Low pressure oil pump, filter and oil level sight gauge
- Large Stainless Steel Interstage cooling tubes with large condensate separators
- Dual Filter Filtration 60,000 Cu.. Ft.

### Options

- Visual CO/Moisture Indicator
- CO Analyzer
- Additional Filtration



Model	MCH30 / 21	MCH 36 / 26
Filling Time*	Approx. 4 Minutes	Approx. 3.3 Minutes
Cubic Feet/Minute	17.5 FAD 21 SCFM*	22 FAD 26.4 SCFM*
Liters/Minute	500 FAD	623 FAD
Motor	Three Phase	Three Phase
230 V - E3 - 60 Hz	31 Amp 15 hp (11 kW) (Part # 8042.2)	35.5 Amp 20 hp (15 kW) (Part # 8044.2)
400 V - E3 - 50 Hz	18 Amp 15 hp (11 kW) (Part # 8042.6)	20 Amp 20 hp (15 kW) (Part # 8044.6)
460 V - E3 - 60 Hz	16 Amp 15 hp (11 kW) (Part #8042.3)	22 Amp 20 hp (15 kW) (Part # 8044.3)
Max Operating Pressure	6000 PSI (414 bar)	6000 PSI (414 bar)
RPM	1100	1300
Number of Stages	4	4
Number of Fill Hoses	4	4
Condensate Drain	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic
Sound Level @ 3 Meters	75 dB	77 dB
Dimensions: (H x W x D)	61 in x 31 in x 42 in	(155 x 94 x 79 x 107 cm)
Weight	800 lbs (363 kg)	
Lubrication	Pressure Lubrication, capacity 4.5 qts.	
Air Quality	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021	

\*Single 80 Cu. Ft. cylinder from 500 to 3000 PSI

## Coltri/Nuvair 26 Enclosed Silenced

High volume facilities where sound may be an issue should look at our Enclosed Silent 26.4 SCFM\* charging rate compressor, rated for continuous duty at up to 6000psi. Unsurpassed in quality, reliability and price. The Enclosed Silenced package is designed for high use in work areas where noise can not be tolerated.

### Features

- Substantial reductions in purchase, maintenance and operation costs as compared to our competition.
- Operation Panel with start/stop, "dial a pressure" automatic shut down, condensate test button, high temperature display, automatic shut down for high temperature & low oil, phase control (proper rotation) recognition, wrong voltage recognition, hour meter, stage & oil pressure gauges
- Automatic Condensate Drains and pressure free start/stop
- Low pressure oil pump, filter & oil level sight gauge
- Large Stainless Steel Interstage cooling tubes with large condensate separators
- Dual Filter Filtration 60,000 Cu.. Ft.
- 20hp or 15hp Electric 3 phase 60 or 50Hz

### Options

- Visual CO/Moisture Indicator
- CO Analyzer
- Additional Filtration



Model	MCH30 / 21	MCH36 / 26
Filling Time*	Approx. 4 Minutes	Approx. 3.3 Minutes
Cubic Feet/Minute	17.5 FAD 21 SCFM*	22 FAD 26.4 SCFM*
Liters/Minute	500 FAD	623 FAD
Motor	Three Phase	Three Phase
230 V - E3 - 60 Hz	31 Amp 15 hp (11 kW) (Part # 8043.2)	35.5 Amp 20 hp (15 kW) (Part # 8045.2)
400 V - E3 - 50 Hz	18 Amp 15 hp (11 kW) (Part # 8043.6)	20 Amp 20 hp (15 kW) (Part # 8045.6)
460 V - E3 - 60 Hz	16 Amp 15 hp (11 kW) (Part # 8043.3)	22 Amp 20 hp (15 kW) (Part # 8045.3)
Max Operating Pressure	6000 PSI (414 bar)	6000 PSI (414 bar)
RPM	1100	1300
Number of Stages	4	4
Number of Fill Hoses	4	4
Condensate Drain	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic
Sound Level @ 3 Meters	68 dB	70 dB
Dimensions: (H x W x D)	66.5 in x 37 in x 52 in	(169 x 94 x 132 cm)
Weight	925 lbs (420 kg)	
Lubrication	Pressure Lubrication, capacity 4.5 qts.	
Air Quality	DIN 3188 - CGA Grade E - NFPA 1500 - EN12021	

\*Single 80 Cu. Ft. cylinder from 500 to 3000 PSI

## Nuvair MCH36D Kubota

Nuvair's flagship open horizontal & continuous-duty commercial high pressure compressor line utilizes the Coltri MCH 36 pumping unit. The compressor can pump up to 26 SCFM at 6000 PSI when charging cylinders. The Coltri compressor block and Kubota Diesel motor are mounted onto a vibration isolated steel base frame that is placed into a powder-coated steel crash frame with belt guard.



### Features

#### Compressor

- 4 Cylinder, 4 stage, Air Cooled
- Visual CO / Moisture Indicator
- Interstate Pressure Gauges
- 2 Large Interstage Condensate Separators
- Large Stainless Steel Interstage Cooling Tubes
- Low Pressure Oil Pump with Filter
- Oil Level Sight Gauge and Oil Pressure Gauge
- Automatic Condensate Drains
- Low Oil Shutdown Switch
- High Temp Switch
- SEP-15 High Pressure Moisture Separator
- Triple Filter Filtration (90,000 Cu. Ft.)
- Powder Coated Steel Frame & Belt Guard
- Vibration Isolation Frame Mounts
- No Load Start/Idle Control
- 13 Gallon Certified Fuel Tank

#### Engine

- Kubota D1803 Diesel
- Hayes Bearing Support Block
- Hour Meter
- Loadless Start
- Deep Sea Control; indicates coil preheater, fault warning, oil pressure, high water temp, **battery voltage, nominal speed**

### Options

- Certified Lifting Eyes
- Pro CO with Audible Alarm
- Diester Based Lubricant
- Moisture Analyzer
- Quad Filtration (120,000 Cu. Ft.)

### Specifications

<b>SCFM</b>	26.4 SCFM, 748 L/Min	
<b>FAD</b>	22FAD, 623 L/Min	
<b>Max Operating Pressure</b>	6000 PSI (413 Bar)	
<b>RPM</b>	1300	
<b># of Stages</b>	4	
<b>Oil Pressure</b>	<b>Cold:</b>	58 PSI (4 Bar)
	<b>Routine Use:</b>	21.75 PSI (1.5 Bar)
	<b>Min. Pressure:</b>	14.5 PSI (1 Bar)
<b>Air Quality</b>	Grade E	
<b>Engine</b>	Kubota D1803 Diesel, 37hp (28kW), 2400 RPM	
<b>Dimensions</b>	64in x 44in x 42in (163cm x 112cm x 107cm)	
<b>Weight</b>	1600 lbs (726 kg)	

# Nuvair Fill Containment Station

## Features

- All Steel Construction
- Grade 8 Steel Construction
- 3rd Party Tested to Meet NFPA 1901 Standard
- Ergonomic Design for Easy Operation
- Vertical Blast Tubes Direct Air Blast and Debris Away from the Operator Should a Failure Occur
- Use with Existing Fill Controls
- Designed to Fit Scuba and SCBA Tanks
- Liners to Reduce Wear on Cylinders

Model	Cylinders	Pneumatic/ Manual	Dual/Single Pressure
NCC-2	2	Manual	Single
NSS-2P	2	Pneumatic	Single or Dual
NSS-3P	3	Pneumatic	Single or Dual
NSS-4P	3	Pneumatic	Single or Dual

## Options

- Storage Bank Controls (Part # NS-Bank)
- Nitrox compatible (Part# NS-Nitrox)
- Panel for NCC-2 (Part# NS-Panel)
- HP Regulator (Part # NS-Reg)
- Additional Gauge and Valve (Part# NS-Valve)
- Whips - Scuba Yoke or DIN, SCBA (Part# NS-Whip)
- Booster Pump
- O2 Cleaning

Model	Weight	Dimensions (H x W x D)
NCC-2	488 lbs (221 kg)	41 in x 26 in x 29 in (104x66x74 cm)
NSS-2	555 lbs (252 kg)	59 in x 26 in x 29 in (150x66x74 cm)
NSS-3	754 lbs (342 kg)	59 in x 41 in x 24 in (150x104x61 cm)
NSS-4	978 lbs (444 kg)	59 in x 49 in x 27 in (150x125x69 cm)

Options will change weight of cabinets



Scuba whip



DIN whip



SCBA whip



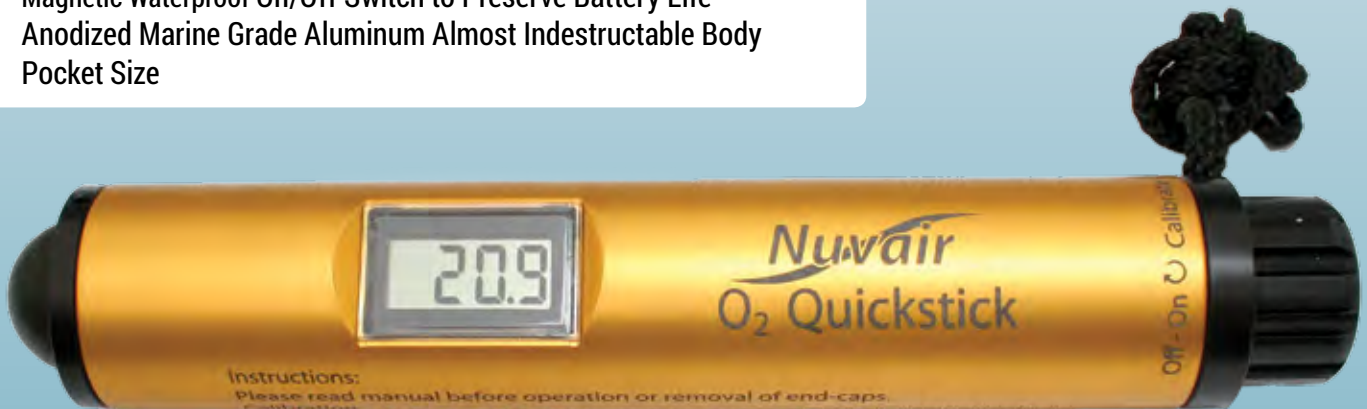
# Nuvair O<sub>2</sub> Quickstick™

*A Simple Solution for Every Nitrox Diver*

The O<sub>2</sub> Quickstick™ is the first Diver Friendly oxygen analyzer available anywhere! Easy to use effective and amazingly affordable! The O<sub>2</sub> Quickstick™ is designed for the Nitrox diver who wants the security and convenience of having his own O<sub>2</sub> analyzer and doesn't want to pay a small fortune to own one. Operating the O<sub>2</sub> Quickstick is as simple as pointing at the tank valve and releasing Nitrox, with only one hand needed! Features an On/Off switch and the replaceable thermally compensated sensor maintains accuracy levels that exceed dive industry standards. The unit is totally O-ring sealed for excellent water resistance and is one of the lowest priced consumer analyzers on the market.

## Features

- Fast Response, Thermally Compensated Sensor
- Completely Sealed, Water Resistant Housing
- No Hoses, Adapters, or Cables Required
- Easy Calibration
- User Replaceable Battery and Sensor
- Magnetic Waterproof On/Off Switch to Preserve Battery Life
- Anodized Marine Grade Aluminum Almost Indestructable Body
- Pocket Size



## Specifications O<sub>2</sub> Quickstick\* (Part#9456)

Range	0.1-100.0% Oxygen (0-1 ATA PPO2)
Display Accuracy	+/- 0.1%
Sensor Type	Electrochemical
Expected Sensor Life, Room Air	36 Months
Power	9V Alkaline Battery
Response Time	Less Than 6 Seconds to 90% of Final Value
Operating Temperature	32-104°F (0-40°C)
Storage Temperature	32-122°F (0-50°C)
Pressure	Sensitive to Partial Pressure
Humidity	0-99% RH (Non-Condensing)
Warranty	36 Months Pro-Rated

\*All specifications are at ambient / sea level, 77°F (25°C)



# Nuvair Pro O<sub>2</sub>™ Oxygen Analyzer Series

Three Styles of Oxygen Analyzers to Accommodate Most Applications:  
*The Standard for Monitoring Nitrox*



## Pro O<sub>2</sub>™ Advantages (Part#9450)

- Internal Sensor
- Sample Low Pressure Gas Flow
- Direct High Pressure Gas Cylinder Analysis

## Pro O<sub>2</sub> Remote™ Panel Mount Advantages (Part#9460)

- External Sensor
- Ambient Pressure Gas
- Inline Monitoring
- Panel Mounted Version

## Features

- Ideal for Nitrox Production Use
- On/Off Switch
- Easy Calibration
- User Replaceable Battery and Sensor
- Fast Response, Thermally Compensated Sensor
- Highly Accurate and Stable Output
- Completely Sealed, Water Resistant Housing

## Replacement Sensors

- Pro O2 (Part# 9505)
- Pro O2 Remote (Part# 9506)

## Pro O<sub>2</sub> Remote™ Advantages (Part#9452)

- External Sensor
- Ambient Pressure Gas
- Inline Monitoring
- Portable Version

## Specifications Pro O<sub>2</sub>\*

<b>Range</b>	0.1-100.0% Oxygen (0-1 ATA PPO2)
<b>Display Accuracy</b>	+/- 0.1%
<b>Sensor Type</b>	Electrochemical
<b>Expected Sensor Life, Room Air</b>	36 Months
<b>Power</b>	9V Alkaline Battery
<b>Response Time</b>	Less Than 6 Seconds to 90% of Final Value
<b>Operating Temperature</b>	32-104°F (0-40°C)
<b>Storage Temperature</b>	32-122°F (0-50°C)
<b>Pressure</b>	Sensitive to Partial Pressure
<b>Humidity</b>	0-99% RH (Non-Condensing)
<b>Warranty</b>	36 Months Pro-Rated

\*All specifications are at ambient / sea level, 77°F (25°C)

# Nuair Pro He™

## Helium Analyzer

The ProHe analyzer is designed for simple measurement of Helium in a mixed gas. The alarms featured in this model include audible and visual alarms for a set point that can shutdown your compressor automatically if out of range. Compatible with Heliox and Trimix. Does not require calibration. Can be used as a continuous reading analyzer while mixing gas.

### Advantages

- Fast Response
- Made to Test Breathing Gases
- Easy To Operate, Reliable and Accurate
- Longlife Electrochemical Sensor
- Automatic Calibration

### Features

- On/Off Switch
- Display Range of 0.0-100%
- Low Battery Warning Indicator
- Two - Custom Audible & Visual Alarms
- 4-20 mA Analog output for external devices
- Capable of shutting down compressor at set alarm with optional relay cable

### Models

- Handheld - 9627
- Panel Mount - 9628
- Panel Mount AC -9628-E
- Box Mount AC -9608



Hand Held  
#9627-E



Water Tight Box with  
rechargeable battery  
#9608



Panel Mount  
#9628 & 9628-E



### Specifications Pro He\*

<b>Maximum Gas Flow Rate</b>	.5-2 liter/min. (about 1 bar)
<b>Measurement Range</b>	Helium indication in any O <sub>2</sub> , Air or Nitrogen mix 0-100% volume
<b>Response Time</b>	<10 seconds for 90% response at 23°C
<b>Full Scale Resolution (FSR)</b>	+ or - 2% over Full Scale
<b>Operating Temperature</b>	41° to 104°F (5° to 40°C) Will work outside this range with decreased accuracy.
<b>Storage Temperature Range</b>	5° to 122° F (-15° to 50°C)
<b>Humidity Range</b>	0 to 90% RH, Non-Condensing
<b>Power Requirements</b>	9 Volt battery or optional 110/120 V -(Lithium Ion Box Model)
<b>Dimensions (H x W x D) (handheld)</b>	5 1/2 x 4 x 2 in ( 14 x 10.1 x 5 cm)
<b>Weight (handheld)</b>	13.2 ounces ( 374g )
<b>Warranty</b>	1 Year Limited on box and 6 months for sensor

\*All specifications are at ambient / sea level, 77°F (25°C)

# Nuvair™ Pro Trimix Alarm

Helium and Oxygen Mixed gas analyzer

The Pro Trimix Helium & Oxygen Analyzer measures Helium (He) and Oxygen (O<sub>2</sub>) levels in gases in the range of 0 to 100% of volume with a 1% resolution. It can be used to measure the He and O<sub>2</sub> content in all breathing gas mixes. The Analyzer is designed to verify Helium & Oxygen concentration in stored gas cylinders as well as to monitor the continuous flow of gas from a compressor. The Analyzer is compatible with outdoor and marine environments. The analyzer is self calibrating and includes audible and visual alarms for user defined set points. As an option the analyzer can shutdown a compressor by way of analog output at a user defined set point.

## Features

- On/Off Switch
- Display Range of 0.0-100%
- Two - Custom Audible & Visual Alarms per gas
- 4-20 mA Analog output for external devices
- Capable of shutting down compressor at set alarm with optional relay cable



## Advantages

- Fast Response
- Made to Test Breathing Gases
- Easy To Operate, Reliable and Accurate
- Longlife Electrochemical O<sub>2</sub> Sensor
- Automatic Calibration
- Longlife Thermal Conductive He Sensor

## Specifications Pro Trimix Alarm - 9609\*

Specifications Pro He	
Maximum Gas Flow Rate	.5-2 liter/min. (about 1 bar)
Display Accuracy	Helium 0-100% volume
Sensor Type	Thermal Conductive Technology
Expected Cell Life- (Room Air & Temp)	60 Months +
Range	0-100% He
Response Time	less than 10 Seconds
Operating Temperature	41° to 104°F (5° to 40°C) <small>Will work outside this range with decreased accuracy.</small>
Storage Temperature	5° to 122° F (-15° to 50°C)
Operating Humidity	0-90% RH, Non-Condensing

Specifications Pro O <sub>2</sub>	
Maximum Gas Flow Rate	.5-2 liter/min. (about 1 bar)
Display Accuracy	+/- 1%
Sensor Type	Electrochemical
Expected Cell Life- (Room Air & Temp)	24 Months
Range	0-100% O <sub>2</sub>
Response Time	less than 12 Seconds
Operating Temperature	41° to 86°F (5° to 30°C) <small>Will work outside this range with decreased accuracy.</small>
Storage Temperature	-4° to 122° F (-20° to 50°C)
Operating Humidity	0-100% RH, Non-Condensing

Power	rechargeable Lithium Polymer battery with 110/230V charger
Dimensions (H x W x D)	3.9 x 8.7 x 7.5 in ( 9.9 x 22.1 x 19.1 cm)
Weight	2 lb. 12 ounces (1361 g)

# Nuvair Pro CO™

## The Carbon Monoxide Analyzer For the Safe Diver

Nuvair Carbon Monoxide analyzers are designed to detect levels of CO that could be harmful to a diver before the gas reaches the diver. Our CO analyzers can be attached to a high pressure compressor to monitor tank fills or inline on a low pressure compressor that is providing surface supplied air to a diver. The analyzers offer both visual and audible alarms to warn the compressor operator of potential CO hazards in the breathing air being supplied. We have two styles of CO analyzers that can be portable or mounted directly to the compressor depending on your requirements.

### Advantages

- 2 Programable Audible & Visual Threshold Alarms
- Alarm at set point or 10 ppm CO
- Fast Response
- Accuracy of +/- 1%
- Compact Water Resistant Container
- Made to Test Breathing Gases\*\*
- Easy To Operate, Reliable and Accurate
- Optional Relays for External Alarm or Compressor Control



### Features

- B.C. Flow Restrictor or Ambient Readings
- On/Off Button
- Response Time of 90% in less than 15 seconds
- Temperature Compensated Sensor
- User Replaceable Batteries
- Low Battery Warning Indicator
- Sensor and Analyzer Auto Calibrate
- Electrochemical Sensor
- Range: 0-100 ppm CO

### Models

- Handheld: #9625
- Panel Mount: #9624
- Panel Mount AC: #9624-E
- CO HT: #9620
- CO LP: #9621

# Nuvair Pro CO<sub>2</sub>™

## Carbon Dioxide Analyzer

The Pro CO<sub>2</sub> analyzer measures Carbon Dioxide levels of breathing gas mixtures and air. We offer two models that can be connected in-line on your high or low pressure compressor for continuous monitoring of any CO<sub>2</sub> contamination in your gas. The CO<sub>2</sub> sensor is auto calibrating and provides a temperature compensated, linear CO<sub>2</sub> measurement over sensing range.

### Advantages

- Fast Response
- Made to Test Breathing Gases
- Easy To Operate, Reliable and Accurate
- Non-Dispersive Infrared Technology
- Modulated Infrared Light Source = NO Moving Parts



### Features

- On/Off Switch
- Response Time of 90% in less than 60 seconds
- Low Battery Warning Indicator
- 50 ppm CO<sub>2</sub> Resolution on Digital Display
- Two custom audible and visible alarms for low and high set points.
- Optional Relays for External Alarm or Compressor Control
- Non-Dispersive Infrared
- Range: 0-2000 ppm CO<sub>2</sub>

### Models

- Handheld: #9616
- Panel Mount: #9617
- Panel Mount AC: #9617-E

### Pro CO & Pro CO<sub>2</sub> Specifications

Maximum Gas Flow Rate	.5 to 1 liter/min. (about 1 bar)
Display Accuracy	+/- 5%
Expected Cell Life- (Room Air & Temp)	60 Months +
Response Time	less than 50 Seconds
Operating Temperature	41-104°F (5-40°C) (Will work outside this range with decreased accuracy.)
Storage Temperature	14 <sup>0</sup> F to 140 <sup>0</sup> F (-10 <sup>0</sup> to 60 <sup>0</sup> C)
Operating Humidity	15 to 90% r.h.
Power	9Volt battery or 110/230v option
Dimensions (H x W x D)	4 1/8 in x 2 1/2 in x 1 7/8 in (10.5 x 6.35 x 4.8 cm)
Weight	7 ounces (200 g)
Warranty	1 Year Limited

\*All specifications are at ambient / sea level, 77°F (25°C) & are subject to change without notice.

\*\*Calibration must be confirmed with with calibration CO test gas

# Nuvair 455

(Part # quart - 9408, gallon - 9406)

## Premium Synthetic Food Grade Breathing Air Compressor Oil HP and LP Reciprocating Compressors

### Application

Nuvair™ 455 is an ISO 100 USDA H1 premium quality oil designed for use in high pressure and low pressure breathing air systems for the diving industry. The unique additive system, never before used in this application, is best possible for preventing wear and carbon residue buildup.

Nuvair™ 455 is suitable for use in reciprocating compressors operating on up to 40% oxygen enriched air. However, as the oxygen content increases, the oil life will decrease.

### Characteristics:

- Available in quart, gallon, and five-gallon containers
- Meets USDA H1 incidental contact requirements (FDA 21 CFR178.3570)
- Excellent oxidation resistance
- High Flash and Auto-ignition points provide safety
- Great material compatibility
- Rust and corrosion control
- Reduced varnish and carbon
- High film strength

Typical Properties	ASTM Test Method	Nuvair™ 455
SAE Grade		30
ISO Viscosity Grade	D2422	100
Viscosity, cSt @ 40°C cSt @ 104°F	D445	100 cSt
	D445	14.0
Viscosity Index	D2270	144
Pour Point	°C D97	-35
	°F D97	-31
Flash Point	°C D92	240
	°F D92	464
Specific Gravity	D1298	0.85
USDA Authorization	H1 or H2	H-1
Demulsibility	D1401	Excellent

# Nuvair 546

(Part #: quart - 9411, gallon - 9409)

## Food Grade Rotary Screw Compressor Oil

### Application

Nuvair™ 546 is designed for 2,000 hours of use in rotary screw compressors where a food grade lubricant is needed. USDA H-1 rated Nuvair™ 546 meets all requirements under FDA Regulation 21 CFR 172.878 and 178.3570.

### Characteristics:

- Available in quart, gallon, and five-gallon containers
- Improved thermal and oxidative stability over mineral oil
- Compatible with most seals, plastics, rubbers
- Wide operating temperature range
- Non-detergent
- Extended oil life reduces oil disposal, thus increasing cost effectiveness

Typical Properties	ASTM Test Method	Nuvair™ 546
SAE Grade		20
ISO Viscosity Grade	D-2422	46
Viscosity, cSt @ 104°F cSt @ 40°C	D-445	46 cSt
	D-2270	145
Pour Point	°C D-97	-54
	°F D-97	-65
Flash Point	°C D-92	260
	°F D-92	500
Evaporation	D-972	1.0%
Foaming Sequence I, II, III	D-892	Nil
Copper Corrosion	D-130	1A
Specific Gravity	D-1298	0.84
USDA Authorization	H1 or H2	H-1
Demulsibility	D-1401	Excellent



# Nuvair 751

(Part #: quart - 9405, gallon - 9403)

## Premium Synthetic Diester Based Air Compressor Oil HP Breathing & Industrial Reciprocating Compressors

### Application

Nuvair™751 is a Diester/Organic compound blend, which is compatible with most currently used compressor components including seals, paints and plastics. However, some materials are not recommended for use with diester oils. Please contact Nuvair for further information. Certain conditions require accelerated oil changes, as there are many factors, including heat and oxidation that cause oil degradation. Call for our recommendation.

### Characteristics:

- Available in quart, gallon, and five-gallon containers
- Outstanding thermal and oxidative stability
- Will not varnish or form carbon deposits
- Wide operating temperature range
- Built in detergency action
- Extended oil life reduces oil disposal, thus increasing cost effectiveness



Typical Properties	ASTM Test Method	Nuvair™ 751
SAE Grade		40
ISO Viscosity Grade	D-2422	150
Viscosity, cSt @ 104°F cSt @ 40°C	D-445	164cSt
Viscosity Index	D-2270	80
Pour Point	°C D-97 °F D-97	-34 -30
Flash Point	°C D-92 °F D-92	271 520
Carbon Residue	D-189	<0.02%
Evaporation	D-972	0.90%
Foaming Sequence I, II, III	D-892	Nil
Copper Corrosion	D-130	1A
Specific Gravity	D-1298	0.94
USDA Authorization	H1 or H2	H-2
Demulsibility	D-1401	Excellent

# Nuvair 800

(Part #: quart - 9414, gallon - 9412)

### Application

Nuvair™ 800 is a high viscosity synthetic oil based on the latest technology. Using a highly stable triester base fluid, the product is designed for use in reciprocating compressors under adverse conditions of high temperature and high pressure.

### Characteristics:

- Thermally stable
- No deposits
- Excellent heat transfer characteristics
- Low volatility
- Low toxicity

Typical Properties	ASTM Test Method	Nuvair™ 800
ISO Viscosity Grade	D2422	150
Viscosity	cSt. @ 100° C D445 cSt. @ 40° C D445 cSt. @ 210° F D445 cSt. @ 100° F D445	14.1 145.9 13.6 175.1
Pour Point	°C D97 °F D97	-29 -20
Flash Point	°C D92 °F D92	287 550
Auto Ignition Temp	°C D1255 °F D1255	390 735
Water Solubility 0.01 g/l @20° C	D1255	Insoluble
Specific Gravity	D1298	0.970
Lbs/Gallon		8.08
Evaporation	D972	<1.0%





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