Nuvair

Compressed Gas Solutions

Table of Contents

About Us

Nuvair has been manufacturing low and high pressure breathing air systems for the working diver for over 20 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_2%
- 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_2
- 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

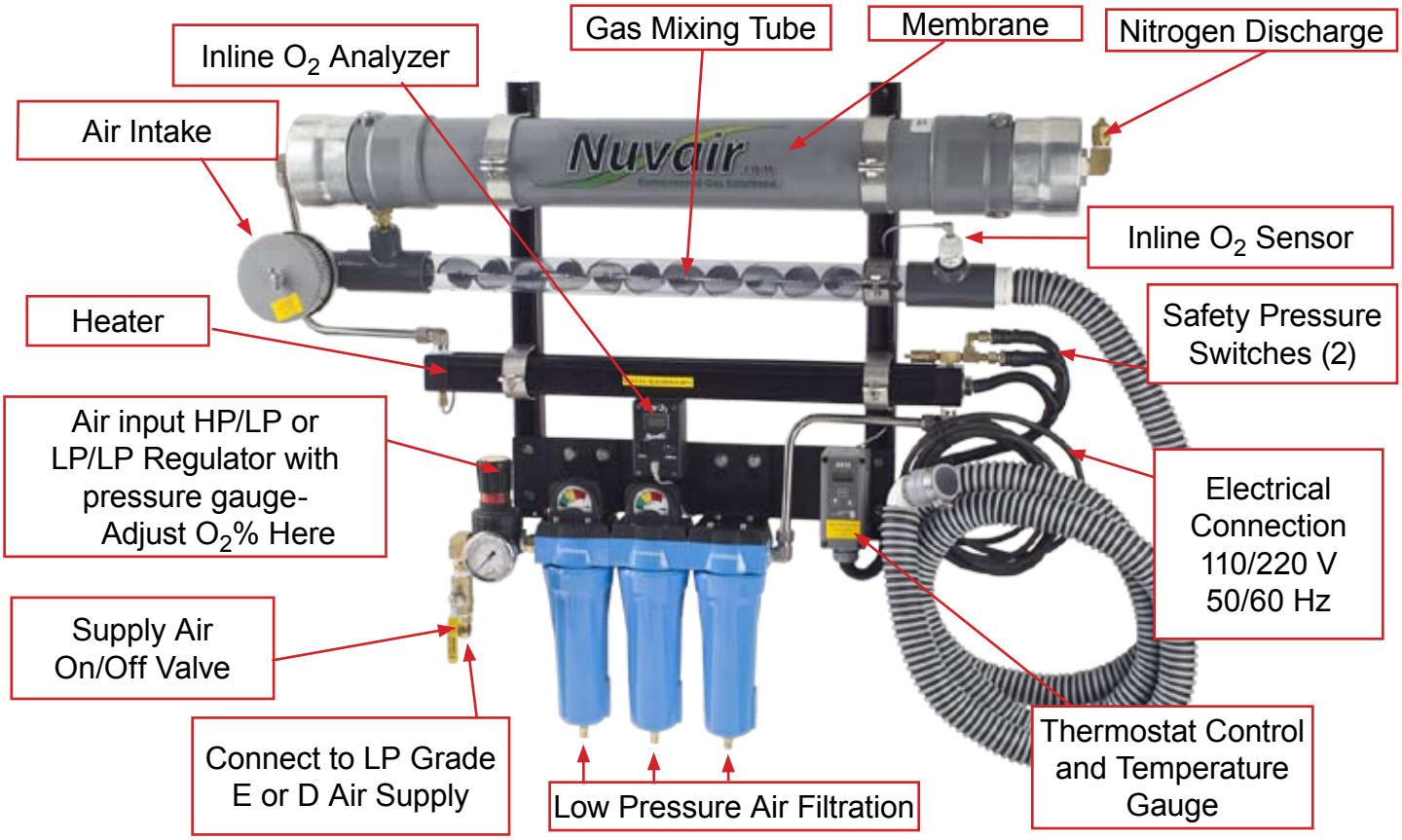
Practical

- Replaces Partial Pressure or Continuous Blending
- No O_2 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

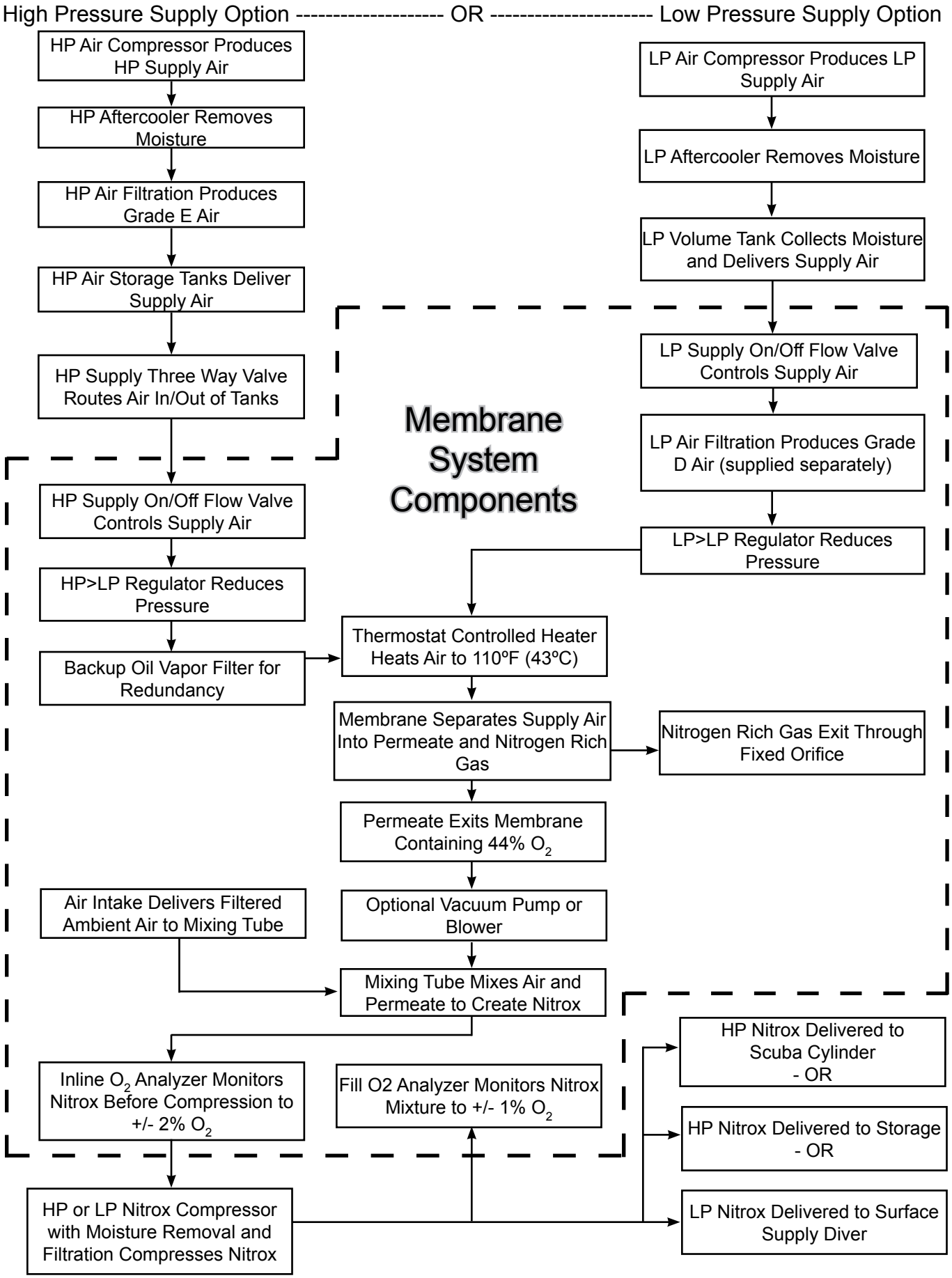
- Up to 20% more efficient than other Membrane Systems
- No oxygen or tank rental costs
- High volume output means no waiting for fills
- Easy maintenance
- Operates on Grade D or E Air
- Use your existing oil lubricated compressor (some compressors may not be suitable)
- No hidden costs

Nuvair Membrane System

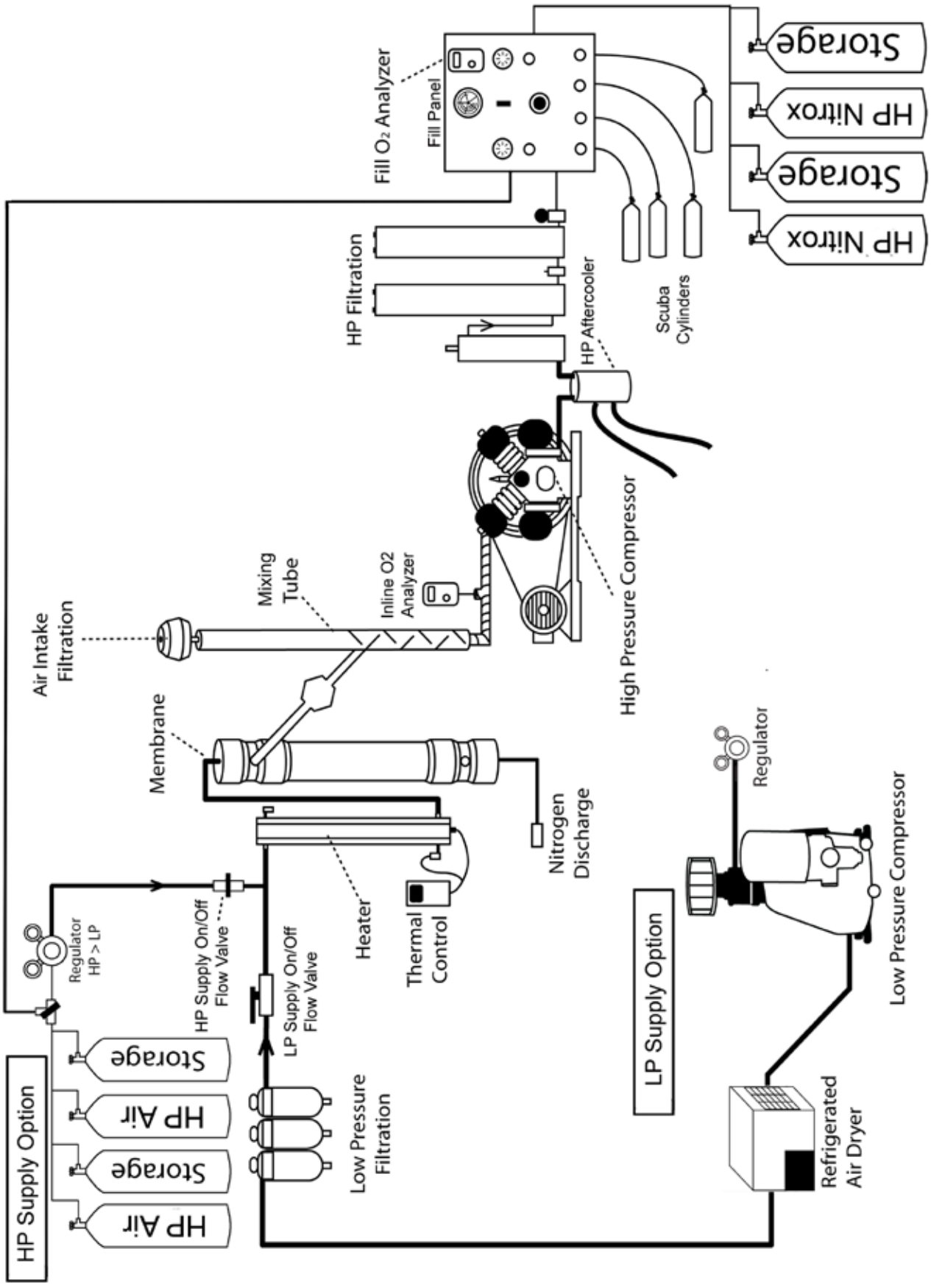


2 What is Nitrox?

Membrane System Flow Chart



System Diagram



4 What is Nitrox?

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 +/-5ºF 43 +/- 3ºC	110 +/-5ºF 43 +/- 3ºC	110 +/-5ºF 43 +/- 3ºC	110 +/-5ºF 43 +/- 3ºC	110 +/-5ºF 43 +/- 3ºC	110 +/-5ºF 43 +/- 3ºC
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
Out-put	Nitrox O_2% 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_2	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_2	EAD	PPO_2	O_2 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.

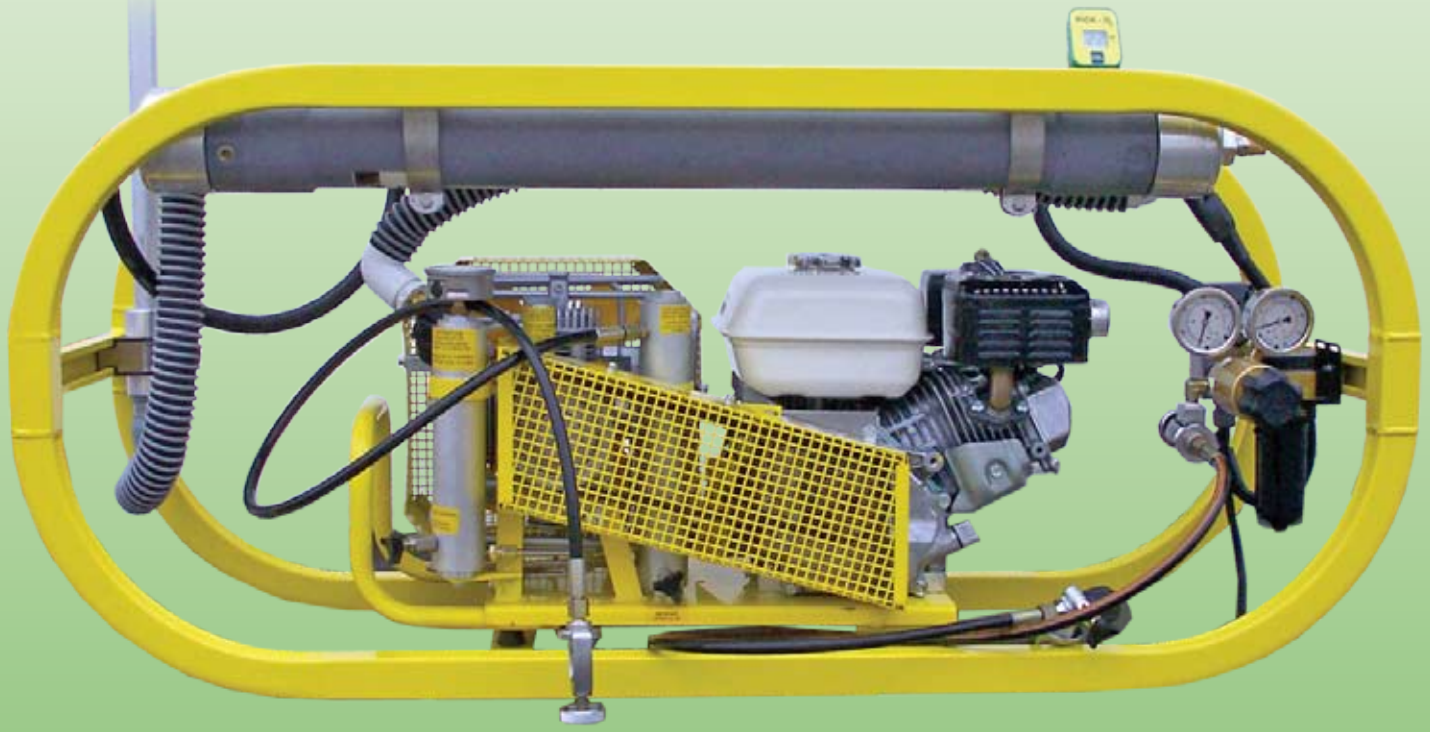
FO_2 = Oxygen Fraction
EAD = Equivalent Air Depth
PPO_2= Partial Pressure of Oxygen

6 What is Nitrox?

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_2 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_2 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)		
Physical Specifications	**Height** **Width** **Depth** **Weight**	22 in (56 cm) 51 in (130 cm) 16 in (41 cm) 134-140 lbs (61-64 kg)
Full Load Amps	**230 V - E3 - 50 or 60 Hz** **230 V - E1 - 50 or 60 Hz** **115 V - E1 - 50 or 60 Hz**	11 A 14-19 A 28 A
Membrane Input	**Operating Pressure** **Supply Air Volume** **Optimum Temperature**	90-165 psi (6-11 bar) 4-11 SCFM (113-312 L/min.) 110 +/- 5°F (43 +/- 3°C)
HP Nitrox Compressor	**Charging Rate** **Fill Time(80 Cu.. Ft.)** **Horsepower - Electric** **Horsepower - Gas**	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_2% 21-40%
- Nuvair 6 CFM Membrane System
- Pro O_2 Analyzer for Fill O_2%
- Pick O_2 Analyzer for Permeate Inline O_2%
- 110 or 220 Volt Thermostatically Controlled Heater
- LP > LP Regulator for O_2% 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** **Width** **Depth** **Weight**	48 in (122 cm) 51 in (130 cm) 20 in (51 cm) 385 lbs (175 kg)	48 in (122 cm) 51 in (130 cm) 20 in (51 cm) 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** **Supply Air Volume** **Optimum Temperature**	90-165 psi (6-11 bar) 4-12 CFM (113-340 L/min.) 110 +/- 5° F (43 +/-3° C)	90-165 psi (6-11 bar) 4-12 CFM (113-340 L/min.) 110 +/- 5° F (43 +/-3° C)
HP Nitrox Compressor	**Output** **Charging Rate** **Fill Time (80 Cu.. Ft.)** **Horsepower - Electric** **Horsepower - Gas**	3.5 CFM, F.A.D. (100 L/min.) 4.2 SCFM* 22 minutes* 7.5 hp (5.5 kW) 11 hp (8.2 kW)	3.5 CFM, F.A.D. (100 L/min.) 4.2 SCFM* 22 minutes* 7.5 hp (5.5 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_2 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_2 Analyzers
- Electric (Single/Three Phase), Honda Gas or Kohler 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_2 Analyzers
- Electric (Single/Three Phase), Honda Gas or Kohler 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

Element Nitrox Model		Element HP	Element LP
Physical Specifications	**Height** **Width** **Depth** **Weight**	31 in (79 cm) 44 in (112 cm) 23 in (58 cm) 352-450 lbs (160-177 kg)	44 in (112 cm) 44 in (112 cm) 23 in (58 cm) 400-510 lbs (182-232 kg)
Full Load Amps	**230 V - E3 - 50 or 60 Hz** **230 V - E1 - 50 or 60 Hz**	25 A 39 A	25 A 39 A
LP Compressor	**Capacity @ 175 psi**	Requires 23 CFM Supply Air	23 CFM (665 L/min.)
Membrane Input	**Operating Pressure** **Supply Air Volume** **Optimum Temperature**	90-165 psi (6-11 bar) 13-25 SCFM (354-708 L/min.) 110 +/- 5° F (43 +/-3° C)	90-165 psi (6-11 bar) 8-25 SCFM (212-708 L/min.) 110 +/- 5° F (43 +/-3° C)
HP Nitrox Compressor	**Charging Rate** **Horsepower - Electric** **Horsepower - Gas** **Horsepower - Diesel**	9 SCFM (265 L/min.)* 7.5 hp (5.5 kW) 9-11 hp (6.6-8.3 kW) 9 hp (6.6 kW)	6-10 SCFM (170-283 L/min.)* 5-7.5 hp (3.8-5.5 kW) 11-13 hp (8.3-9.7 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_2 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_2 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**
Physical Specifications*	Height Width Depth Weight Horsepower	48 in (122 cm) 59 in (150 cm) 30 in (76 cm) 635 lbs (288 kg) 10 hp (7.5 kW)	76 in (193 cm) 52 in (132 cm) 34 in (86 cm) 872 lbs (396 kg) 15 hp (11.2 kW)	49 in (125 cm) 52 in (132 cm) 34 in (86 cm) 895 lbs (406 kg) 20 hp (15 kW)	74 in (188 cm) 61 in (155 cm) 42 in (107 cm) 1260 lbs (572 kg) 25 hp (18.6 kW)
Full Load Amps	440 V - E3 - 50 or 60 Hz 380 V - E3 - 50 or 60 Hz 230 V - E3 - 50 or 60 Hz	16 A 19 A 30 A	21 A 24 A 48 A	33 A 38 A 64 A	40 A 46 A 78 A
LP Compressor	Capacity @ 175 psi	30 CFM (850 L/min.)	44 CFM (1250 L/min.)	60 CFM (1700 L/min.)	80 CFM (2300 L/min.)
Membrane Input	Operating Pressure Supply Air Volume Optimum Temperature	90-175 psi (6-12 bar) 8-30 SCFM (212-850 L/min.) 110 +/- 5° F (43 +/-3° C)	90-175 psi (6-12 bar) 10-36 SCFM (280-1250 L/min.) 110 +/- 5° F (43 +/-3° C)	90-175 psi (6-12 bar) 13-60 SCFM (354-1700 L/min.) 110 +/- 5° F (43 +/-3° C)	90-175 psi (6-12 bar) 25-80 SCFM (708-2300 L/min.) 110 +/- 5° F (43 +/-3° C)
Rated to Supply	F.A.D. for 40% O2	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% O2	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% O2	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_2 % 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_2 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**
Physical Specifications*	Height Width Depth Weight Horsepower	41.5 in (105.4 cm) 27 in (68.6 cm) 35 in (88.9 cm) 565 lbs (256 kg) 10 hp (7.5 kW)	49.5 in (125.7 cm) 27 in (68.6 cm) 48 in (121.9 cm) 685 lbs (311 kg) 15 hp (11.2 kW)	49.5 in (125.7 cm) 27 in (68.6 cm) 48 in (121.9 cm) 685 lbs (311 kg) 20 hp (15 kW)	54 in (137.1 cm) 30 in (76.2 cm) 50 in (127 cm) 760 lbs (345 kg) 25 hp (18.6 kW)
Full Load Amps	440 V - E3 - 50 or 60 Hz 380 V - E3 - 50 or 60 Hz 230 V - E3 - 50 or 60 Hz	16 A 19 A 30 A	21 A 24 A 48 A	33 A 38 A 64 A	40 A 46 A 78 A
LP Compressor	Capacity @ 175 psi	30 CFM (850 L/min.)	44 CFM (1250 L/min.)	60 CFM (1700 L/min.)	80 CFM (2300 L/min.)
Membrane Input	Opterating Pressure Supply Air Volume Optimum Temperature	90-175 psi (6-12 bar) 8-30 SCFM (212-850 L/min.) 110 +/- 5° F (43 +/-3° C)	90-175 psi (6-12 bar) 10-36 SCFM (280-1250 L/min.) 110 +/- 5° F (43 +/-3° C)	90-175 psi (6-12 bar) 13-60 SCFM (354-1700 L/min.) 110 +/- 5° F (43 +/-3° C)	90-175 psi (6-12 bar) 25-80 SCFM (708-2300 L/min.) 110 +/- 5° F (43 +/-3° C)
Rated to Supply	F.A.D. for 40% O2	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% O2	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% O2	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_2 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_2 Analyzers (Permeate and Fill O_2 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		
Physical Specifications	Height Width Depth Weight	52 in (133 cm) 38 in (97 cm) 49 in (125 cm) 840 lbs (382 kg)
Full Load Amps	230V - E1 - 50 or 60 Hz** 230V - E3 - 50 or 60 Hz 400V - E3 - 50 or 60 Hz	53 A 49 A 28 A
LP Compressor	Capacity @ 175 psi Horsepower - Electric	23 CFM (665 L/min.) 7.5 hp (5.5 kW)
Volume Tank	Capacity	15 gal (57 L)
Membrane Input	Operating Pressure Supply Air Volume Optimum Temperature	90-170 psi (6-12 bar) 13-25 SCFM (354-708 L/min.) 110 +/- 5° F(43°C +/- 3°)
HP Nitrox Compressor	Output Charging Rate Fill Time Horsepower - Electric	8.4 CFM, F.A.D. (240 L/min.) 9.5 SCFM* 8.5 minutes* 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_2

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)
- Nuvair Membrane System
- Permeate and Fill O_2% 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_2% Automatic Shut Down

Nitrox Generator Model		Voyager II	Voyager III	Voyager IV
Physical Specifications	Height Width Depth Weight	62 in (158 cm) 57 in (145 cm) 32 in (81 cm) 1150 lbs (522 kg)	67 in (170 cm) 62 in (158 cm) 35 in (89 cm) 1400 lbs (635 kg)	67 in (170 cm) 62 in (158 cm) 35 in (89 cm) 1450 lbs (658 kg)
Full Load Amps	460V - E3 - 50 or 60 Hz 400V - E3 - 50 or 60 Hz 230V - E3 - 50 or 60 Hz 230V - E1 - 50 or 60 Hz	30 A 35 A 60 A 79 A	38.5 A 44.5 A 77 A 86 A	51 A 59 A 102 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 HP Compressor	10 hp (7.5 kW) 7.5 hp (5.5 kW)	15 hp (11 kW) 10 hp (7.5 kW)	20 hp (15 kW) 15 hp (11 kW)
HP Compressor	F.A.D. for 21% - 40% O_2	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 > Q325

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
- One 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_2 Automatic Shut Down
- CO and/or CO_2 Analyzer
- Low Pressure Warning Alarm

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 40% O_2 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	R30 > R15	RVK > R15	RVK > Q325
Physical Specifications	**Height** **Width** **Depth** **Weight**	57 in (145 cm) 53 in (135 cm) 23 in (58 cm) 624 lbs (284 kg)	70 in (178 cm) 82 in (208 cm) 38 in (97 cm) 1150 lbs (523 kg)	62 in (157 cm) 76 in (193 cm) 35 in (89 cm) 1400 lbs (636 kg)	62 in (157 cm) 76 in (193 cm) 35 in (89 cm) 1470 lbs (668 kg)
Supply Air LP Compressor	**Make** **Maximum Pressure** **CFM (LPM) Output**	Champion R15 175 PSI (12 bar) 23.5 (665 L/min.)	Champion R30 175 PSI (12 bar) 49 (1387 L/min.)	Rotair RVK 175 PSI (12 bar) 42 (1200 L/min.)	Rotair RVK 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	N/A
Nitrox (Divers Supply) LP Compressor	**Make** **Maximum Pressure** **CFM (LPM)**	ABAC 150 PSI (10 bar) 12 (340 L/min.)	Champion R15 175 PSI (12 bar) 15 (425 L/min.)	Champion R15 175 PSI (12 bar) 16 (453 L/min.)	Quincy 325 250 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** **Power**	Honda 20 hp (15 kW)	Honda 24 hp (17.9 kW)	N/A N/A	N/A N/A
Diesel Engine Specifications	**Make** **Power**	Kohler 19 hp (15.2 kW)	Kohler 28.5 hp (21.3 kW)	Kohler 28.5 hp (21.3 kW)	Kohler 28.5 hp (21.3 kW)
Fuel Tank Size		6.5 Gallons	15 Gallons	15 Gallons	15 Gallons
Electric Specifications	**Make** **Power**	WEG TEFC 15 hp (11.2 kW)	WEG TEFC 20 hp (15 kW)	WEG TEFC 25 hp (18.7 kW)	WEG TEFC 25 hp (18.7 kW)

Quincy 390 > Nuvair 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_2 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_2% 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 Analyzer with Alarm or Shut Down Capability
- CO_2 Analyzer with Alarm or Shut Down Capability
- O_2 Analyzer with Alarm or Shut Down Capability

* No LP Volume Tank is required

Quincy 390 > Nuvair 26 D Model			
Physical Specifications	**Height** **Width** **Depth** **Weight**		60 in (152.4 cm) 86 in (218.4 cm) 54 in (137.2 cm) 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 > Nuvair 26 E

Advantages

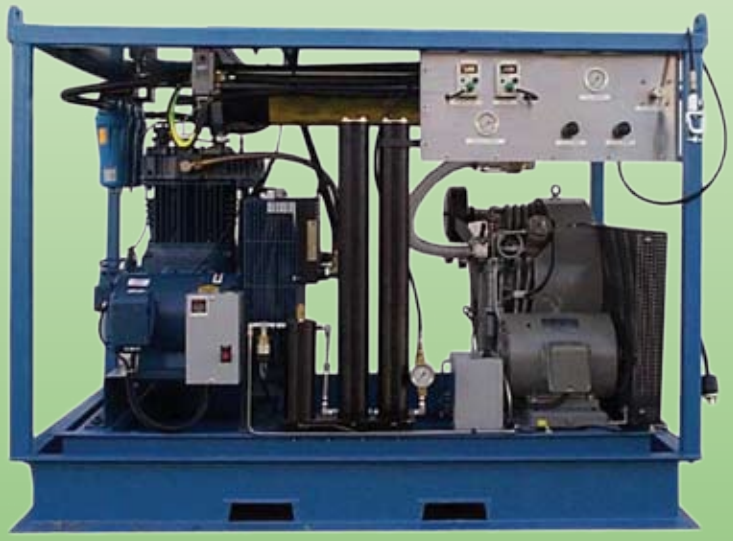
- Complete state-of-the-art LP/HP Nitrox Generating System
- Compressors can be used independently to provide HP or LP air, or together to provide HP Nitrox.
- Produces a constant flow of Nitrox from 22% to 40% @ 26.4 SCFM.

Nitrox Membrane System

- (2) Pro O_2 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_2% 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 15 hp High Pressure Pictured

Options

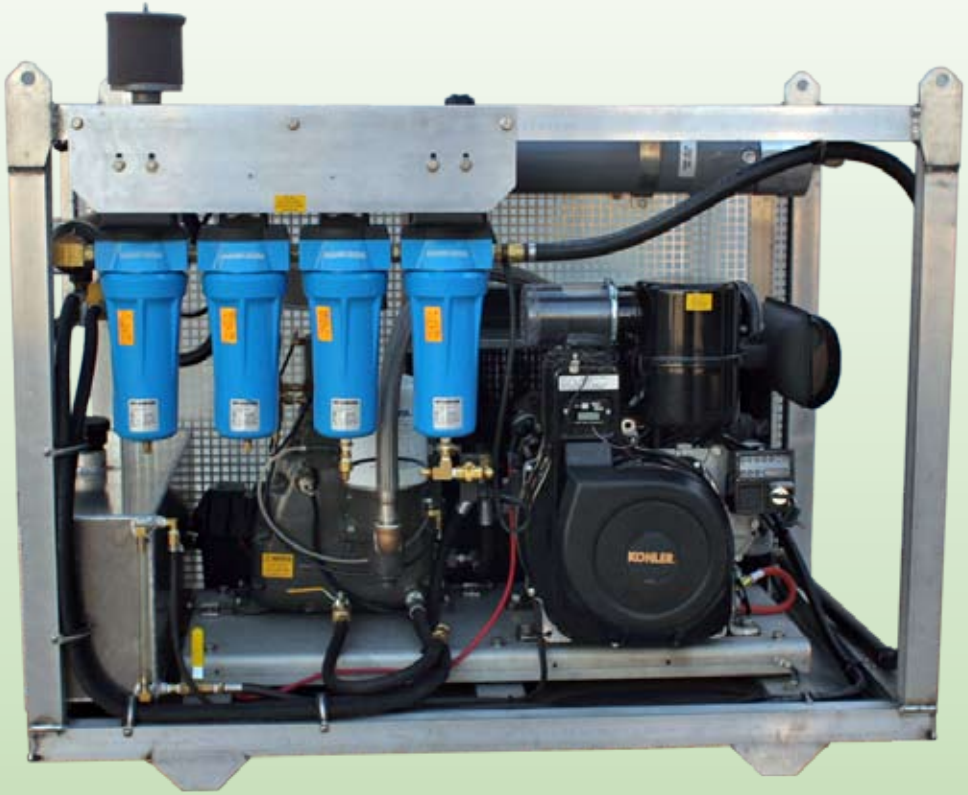
- Quincy 370 with 21 SCFM HP Compressor
- RVK Rotary Screw Compressor*
- Canvas Cover
- Refrigerated Dryer and Separator
- CO Analyzer with Alarm or Shut Down Capability
- CO_2 Analyzer with Alarm or Shut Down Capability
- O_2 Analyzer with Alarm or Shut Down Capability

* No LP Volume Tank is required

Quincy 390 > Nuvair 26 E Model			
Physical Specifications	**Height** **Width** **Depth** **Weight**		57 in (144.8 cm) 80 in (203.2 cm) 48 in (121.9 cm) 2600 lbs (1179 kg)
Full Load Amps	**440V - E3 - 50 or 60 Hz** **380V - E3 - 50 or 60 Hz** **230V - E3 - 50 or 60 Hz**		54 A 76 A 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

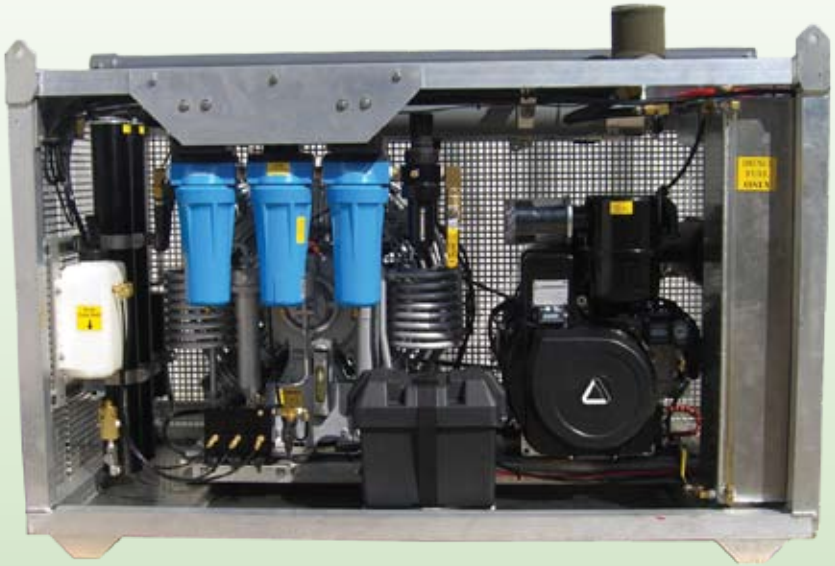
- Seawater Cooled Heat Exchanger
- Water Cooled Quiet Exhaust
- Powder Coated Frame
- Wheels on Frame
- 110/220 Volt Refrigerated Air Dryer
- Large Fuel Tank
- Lifting Eyes, Fork Lift Slots

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_2. 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			7056.2	7056.4	7056.3	7056.5
Physical Specifications	Height Width Depth Weight	60 in (152 cm) 40 in (102 cm) 28 in (70.5 cm) 450 lbs (204 kg)	45 in (114 cm) 40 in (102 cm) 26 in (66 cm) 572 lbs (260 kg)	64 in (163 cm) 46 in (117 cm) 32 in (81 cm) 620 lbs (280 kg)	44 in (112 cm) 48 in (122 cm) 34 in (86 cm) 671 lbs (305 kg)	46 in (117 cm) 54 in (137 cm) 36 in (91 cm) 796 lbs (361 kg)
Supply Air LP Compressor	Make Max Pressure CFM (LPM) Output	Rotair RVG 175 PSI (12 bar) 23 (651 L/min.)	Rotair RVG 175 PSI (12 bar) 32 (900 L/min.)	Rotair RVK 175 PSI (12 bar) 39 (1100 L/min.)	Rotair RVK 175 PSI (12 bar) 36 (1020 L/min.)	Rotair RVK 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
Heater Type		Air/Oil Heat Exchanger				
Engine Specifications	Make & Type Model Power	Honda Gas GX390U1QNR2 11 hp (8.2 kW) @ 3600 rpm	Kubota Diesel Z602 13 hp (10.4 kW)	Honda Gas GX670UTXF2 20.5 hp (15.3 kW) @ 3600 rpm	Kohler Diesel 25LD425-2 19 hp (14 kW) @ 3600 rpm	Kohler Diesel 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 % F.A.D. for 36 % F.A.D. for 32 %	9 CFM (255 L/min.) 12 CFM (340 L/min.) 15.5 CFM (440 L/min.)	10 CFM (283 L/min.) 12.5 CFM (350 L/min.) 17 CFM (480 L/min.)	15 CFM (420 L/min.) 19 CFM (530 L/min.) 26 CFM (730 L/min.)	15 CFM (420 L/min.) 19 CFM (530 L/min.) 26 CFM (730 L/min.)	18 CFM (509 L/min.) 22 CFM (623 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 02% 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** **Width** **Depth** **Weight**	44 in. (111.8 cm) 64 in. (162.8 cm) 32 in. (81.3 cm) 710 lbs (322 kg)	44 in. (111.8 cm) 64 in. (162.8 cm) 32 in. (81.3 cm) 760 lbs (345 kg)	44 in. (111.8 cm) 64 in. (162.8 cm) 32 in. (81.3 cm) 900 lbs (408 kg)
Engine Specifications	**Make and Type**	Honda Gas	Kohler Diesel	Kohler Diesel
	Model	GX670UTXF2	25LD425-2	9LD626-2
	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°)
HP Nitrox Compressors	**Output**	17.5 CFM (500 L/min.) FAD	17.5 CFM (500 L/min.) FAD	22 CFM (622 L/min.) FAD
	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_2 and/or O_2 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

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	N/A
230 V - E3 - 50 or 60 Hz	N/A	11 Amp (Part# 8016.4)**	N/A
Driven by	3 hp (2.2 kW)	4 hp (3 kW)	5.5 hp (4 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

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-C)
115 V - E1 - 50 or 60 Hz	28 Amp (Part# 8015-C)**	N/A	
230 V - E1 - 50 or 60 Hz	14 Amp (Part# 8014.1-C)**	N/A	N/A
230 V - E3 - 50 or 60 Hz	N/A	11 Amp (Part# 8016.2-C)**	N/A
Driven by	3 hp (2.2 kW)	4 hp (3 kW)	5.5 hp (4 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)	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)
Weight	110 lbs (50 kg)	108 lbs (49 kg)	108 lbs (49 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 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
Filling Time*	Approx. 11 Minutes	Approx. 9 Minutes	Approx. 7.4 Minutes
Cubic Feet/Minute	4.7 FAD 6.6 SCFM*	7.6 FAD 8.9 SCFM*	9.4 FAD 10.8 SCFM*
Liters/Minute	135 FAD	215 FAD	265 FAD
Motor Options	Single or Three Phase	Single or Three Phase	Single or Three Phase
230 V - E1 - 50 or 60 Hz	19 Amp	25 Amp (Part# 8020.1)**	34 Amp (Part# 8022.1)**
230 V - E3 - 50 or 60 Hz	11 Amp	14 Amp (Part# 8019.2)**	20 Amp (Part# 8022.2)**
440 V - E3 - 50 or 60 Hz	N/A	7 Amp (Part# 8019.3)**	10 Amp (Part# 8022.3)**
Driven by	4 hp (3 kW)	5.5 hp (4 kW)	7.5 hp (5.5 kw)
Max Operating Pressure	5000 PSI (345 Bar)	5000 PSI (345 Bar)	5000 PSI (345 Bar)
RPM	890	1350	1550
Number of Stages	3	3	3
Number of Fill Hoses	2	2	2
Condensate Drain	Manual	Manual	Manual
Sound Level @ 3 Meters	75 dB	81 dB	82 dB
Dimensions: (H x W x D)	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)
Weight	218 lbs (99 kg)	218 lbs (99 kg)	218 lbs (99 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 Mini Tech

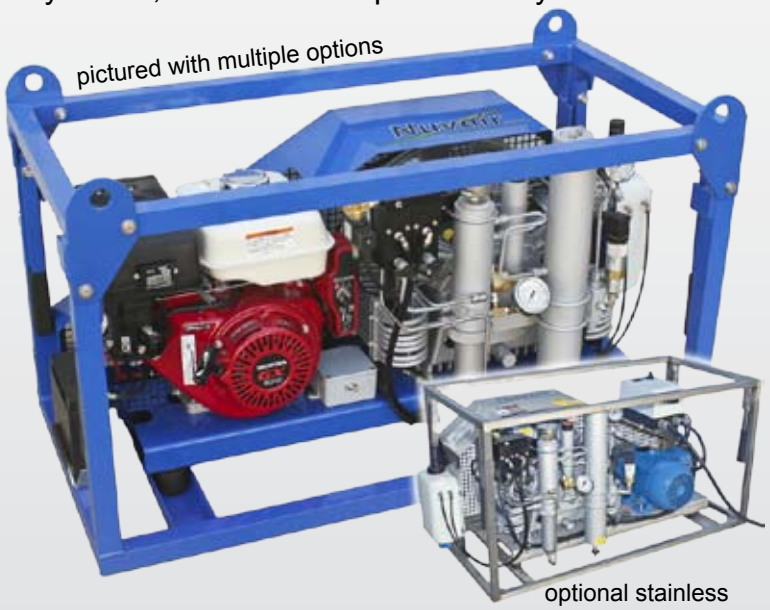
The Mini Tech is our go to Compressor set up for a wide variety of applications in both breathing air and industrial air use. Compact design and fold away handles make for easy lifting and portability of the compressor. On board Grade E air purification insures breathing air quality standards. A wide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

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

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
- Lifting Eyes



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	6.5 hp (4.1 kW) (Part# 8039)	9 hp (6.6 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)	24 in x 45 in x 22 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)	9 hp (6.6 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

EVO Cabinet with options

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	34 Amp (Part# 8033.1)**
230 V - E3 - 50 or 60 Hz	14 Amp	20 Amp (Part# 8032.2)**
440 V - E3 - 50 or 60 Hz	7 Amp	10 Amp (Part# 8032.3)**
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	79 dB	81 dB
Dimensions*: (H x W x D)**	33 in x 35 in x 24 in (84 x 89 x 60 cm)	33 in x 35 in x 24 in (84 x 89 x 60 cm)
Weight	310-400 lbs (141-181 kg)	332-430 lbs (151-195 kg)
Lubrication	Splash Lubrication, capacity 1.6 qts.	
Air Quality	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
Filling Time*	Approx. 4.5 Minutes	Approx. 3.7 Minutes
Cubic Feet/Minute	14.8 FAD 17.8 SCFM*	18.4 FAD 21.6 SCFM*
Liters/Minute	420 FAD	520 FAD
Motor Options	Single or Three Phase	Three Phase
230 V - E1 - 50 or 60 Hz	2 x 25 Amp	N/A
230 V - E3 - 50 or 60 Hz	2 x 14 Amp	2 x 20 Amp (Part# 8036.2)**
440 V - E3 - 50 or 60 Hz	2 x 7 Amp	2 x 10 Amp (Part# 8036.3)**
Motor Power	2 x 5.5 hp (4 kW)	2 x 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	4	4
Condensate Drain	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic
Sound Level @ 3 Meters	72 dB	75 dB
Dimensions: (H x W x D)	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)
Weight	629 lbs (286 kg)	673 lbs (306 kg)
Lubrication	Splash Lubrication, capacity 2 x 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 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
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# 8035.2)**
440 V - E3 - 50 or 60 Hz	7 Amp	10 Amp (Part# 8035.3)**
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	66 dB	69 dB
Dimensions: (H x W x D)	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)
Weight	466 lbs (177 kg)	488 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 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)	60 in x 40 in x 30 in (153 x 102 x 76 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)	65.5 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 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

O_2 Quickstick™

A Simple Solution for Every Nitrox Diver

The O_2 Quickstick™ is the first Diver Friendly oxygen analyzer available anywhere! Easy to use effective and amazingly affordable! The O_2 Quickstick™ is designed for the Nitrox diver who wants the security and convenience of having his own O_2 analyzer and doesn't want to pay a small fortune to own one. Operating the O_2 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

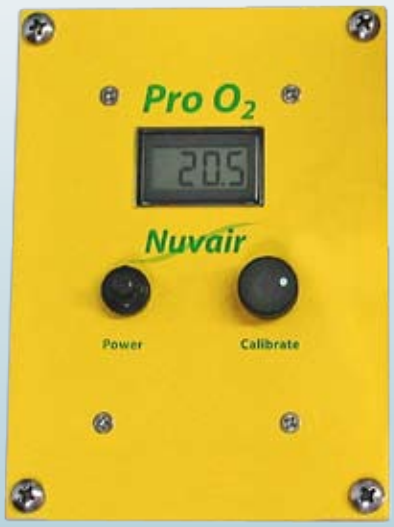
Specifications O_2 Quickstick* (Part#9455)	
Range	0.1-100.0% Oxygen (0-1 ATA PPO2)
Display Accuracy	+/- 0.1%
Sensor Type	Electrochemical
Expected Sensor Life, Room Air	36 Months
Power	9V Alkaline Battery
Response Time	Less Than 6 Seconds to 90% of Final Value
Operating Temperature	32-104°F (0-40°C)
Storage 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)

Pro O_2™ Oxygen Analyzer Series

Three Styles of Oxygen Analyzers to Accommodate Most Applications:

The Standard for Monitoring Nitrox



Pro O_2™ Advantages
(Part#9450)
- Internal Sensor
- Sample Low Pressure Gas Flow
- Direct High Pressure Gas Cylinder Analysis

Pro O_2 Remote™ Panel Mount Advantages
(Part#9460)
- External Sensor
- Ambient Pressure Gas
- Inline Monitoring
- Panel Mounted Version

Pro O_2 Remote™ Advantages
(Part#9452)
- External Sensor
- Ambient Pressure Gas
- Inline Monitoring
- Portable 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# 9510)

Specifications Pro O_2*	
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	32-104ºF (0-40ºC)
Storage Temperature	32-122ºF (0-50ºC)
Pressure	Sensitive to Partial Pressure
Humidity	0-99% RH (Non-Condensing)
Warranty	36 Months Pro-Rated

*All specifications are at ambient / sea level, 77ºF (25ºC)

Nuvair™ Pro He

Features

- Portable Instrument
- LCD Display
- On/Off Switch
- Rugged High Impact Plastic
- Watertight Enclosure
- Thermal Conductivity Sensor
- Accurate to +/-1%
- Requires Very Little Maintenance
- Low Power Consumption
- Battery Test Function
- AC Power Adapter

Specifications Pro He* (Part#HE)	
Range	0.1-100.0% Helium in Oxygen and/or Nitrogen
Display Accuracy	+/- 1% at Constant Temperature and Pressure
Sensor Type	Solid State Thermal Conductivity (Helium)
Battery Power	4 C-Cell Alkaline Batteries ANSI-14A, IEC-LR14
Response Time	90% in Less than 5 Seconds
Operating Temperature	32-104ºF (0-40ºC)
Storage Temperature	32-122ºF (0-50ºC)
Display	3 1/2 in LCD
Battery Life	Approximately 150 Hours Continuous Use

*All specifications are at ambient / sea level, 77ºF (25ºC)

Nuvair™ Pro Trimix
Helium/Oxygen Analyzer
Featured as a Portable Unit
Also Available as a Wall Mount

Features
- Oxygen Analysis with Long Life Sensor (35 Month)
- Thermal Conductivity Sensor
- On/Off Switch
- Operate for 150 Hours on Four (4) C Batteries or Operate Continuously with AC Power Adapter
- Power Adapter is 110-240 Volt, 50-60 Hz, and comes with many plug styles
- Easy to Read 3.5 in Digital LCD Display
- Battery Test Function

Portable
- Rugged High Impact Plastic
- Watertight Enclosure

Wall Mount
- Rugged Dust Tight Housing

Specifications Pro Trimix* (Part#HE-O2)	
Range	0.1-100.0% Helium in Oxygen and/or Nitrogen 0-100% Oxygen in Nitrogen and/or Helium
Display Accuracy	Helium / Oxygen +/- 2% of FS at Constant Temperature; +/- 5% Over Operating Temperature Range
Sensor Type	Solid State Thermal Conductivity (Helium)
Power	4 C-Cell Alkaline Batteries ANSI-14A, IEC-LR14
Response Time	90% of Final Value in Less than 7 Seconds
Operating Temperature	32-104ºF (0-40ºC)
Storage Temperature	32-122ºF (0-50ºC)
Display	3 1/2 in LCD
Battery Life	Approximately 150 Hours Continuous Use

*All specifications are at ambient / sea level, 77ºF (25ºC)

Nuvair™ Pro CO

The Carbon Monoxide Analyzer For the Safe Diver

Advantages

- 2 Programable Alarm Thresholds
- Audible 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
- Accuracy of +/- 1%
- Response Time of 90% in less than 15 seconds
- Temperature Compensated Sensor
- User Replaceable Batteries
- Low Battery Warning Indicator
- 4-20 mA Output
- Factory Reset

Specifications Pro CO* (Part #9625)	
Range	0-100 ppm CO
Display Accuracy	+/- 1%
Sensor Type	Electrochemical
Expected Cell Life, Room Air	18 Months
Power	9Volt battery
Response Time	less than 50 Seconds
Operating Temperature	41-104°F (5-40°C)
Storage Temperature	41-104°F (5 to 40°C)
Operating Humidity	15 to 90% r.h.
Warranty	12 Months

*All specifications are at ambient / sea level, 77°F (25°C) **Calibration must be done with calibration CO test gas

Nuvair™ Pro CO_2

Carbon Dioxide Analyzer

The Pro CO2 is the latest of the Nuvair Pro analyzer line. It comes in a small compact black box just like the Pro O2 or the Pro CO and is just as easy to use. The high performance sensor provides a temperature compensated and linear CO2 measurement over the sensing range. The sensor contains a long life tungsten filament infrared light source, an optical cavity into which gas diffuses, a dual temperature compensated pyro-electric infrared detector, an integral semiconductor temperature sensor and electronics to process the signals from the pyro-electric detector.

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_2 Resolution on Digital Display
- Two custom audible and visible alarms
- 4-20 mA Analog output for extrernal devices

Specifications Pro CO_2 * (Part#9616)	
Maximum Gas Flow Rate	600 cc/min. or 1/2 liter/min.
Accuracy (assumes accurate recent calibration)	Better than 50 ppm + or - resolution
Repeatability (assumes stable atm press and temp)	Better than ± 1 ppm
Warm up time at 72° F (22° C)	1 minute to +/- 0.2% 10 Minutes Max Accuracy
Full Scale Resolution (FSR)	0 to 2500 is 50 ppm
Temperature Performance	+ or - 10% of reading up to 50% FSD + or - 15% of reading up to 50% to100% FSD
Storage Temperature Range	-4° F to 122° F (-20° to 50° C)
Humidity Range	0 to 95% RH, Non-Condensing
Power Requirements	9 Volt battery
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

*Specifications subject to change without notice.

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 °F	 D97 D97	 -35 -31
Flash Point °C °F	 D92 D92	 240 464
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
Viscosity Index	D-2270	145
Pour Point °C °F	 D-97 D-97	 -54 -65
Flash Point °C °F	 D-92 D-92	 260 500
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 HP

Reciprocating Breathing Air Compressor Oil

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 °F	 D-97 D-97	 -34 -30
Flash Point °C °F	 D-92 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)

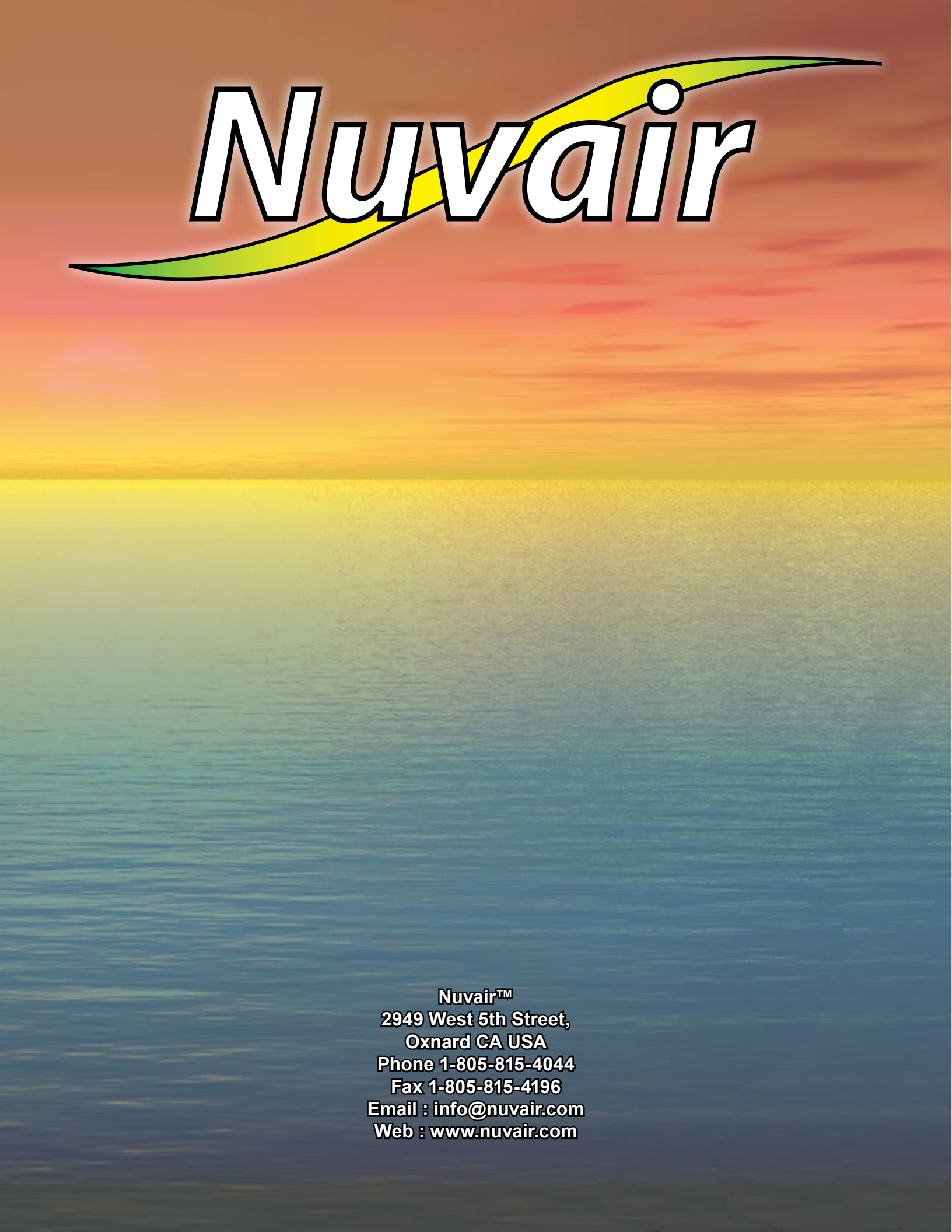
Application

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 cSt. @ 40° C cSt. @ 210° F cSt. @ 100° F	 D445 D445 D445 D445	 14.1 145.9 13.6 175.1
Pour Point °C °F	D97 D97	-29 -20
Flash Point °C °F	D92 D92	287 550
Auto Ignition Temp °C °F	D1255 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%



Nuvair™
2949 West 5th Street,
Oxnard CA USA
Phone 1-805-815-4044
Fax 1-805-815-4196
Email : info@nuvair.com
Web : www.nuvair.com