

# Nuvair

## Compressed Gas Solutions





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# 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<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

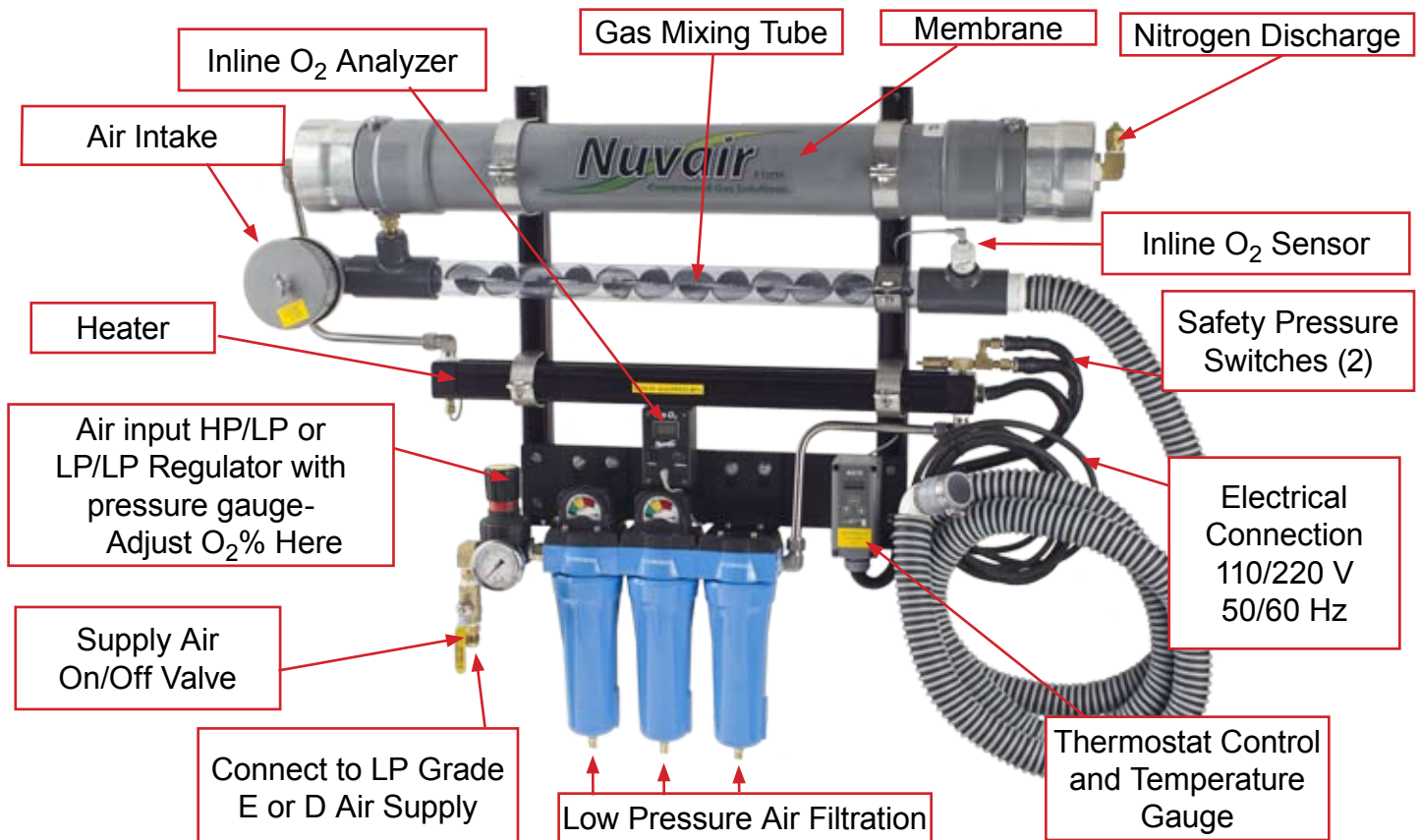
## Practical

- 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

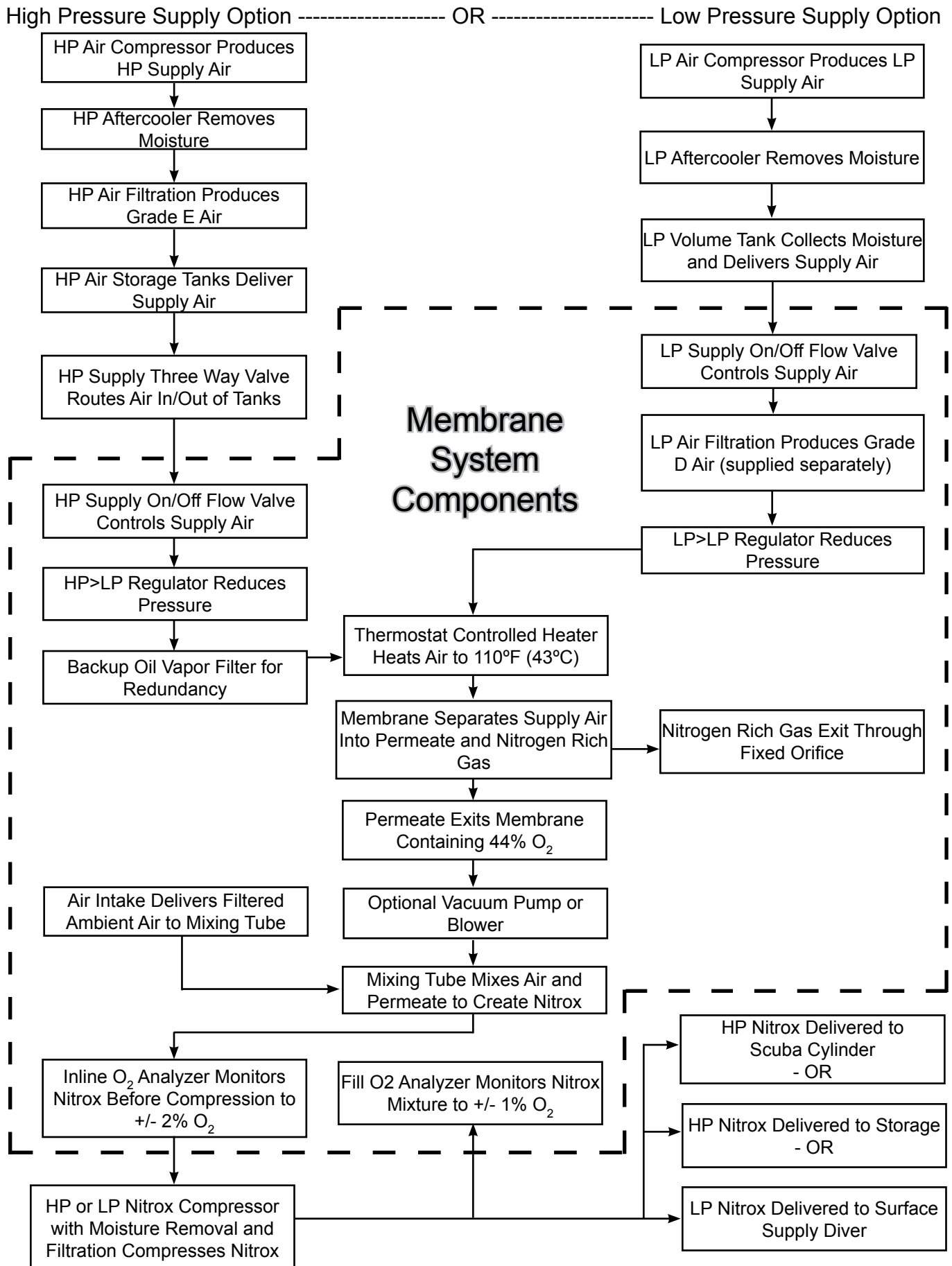
- Up to 20% more efficient than other Membrane Systems
- No oxygen or tank rental costs
- High volume output means no waiting for fills
- Easy maintenance
- Operates on Grade D or E Air
- Use your existing oil lubricated compressor (some compressors may not be suitable)
- No hidden costs

## Nuvair Membrane System

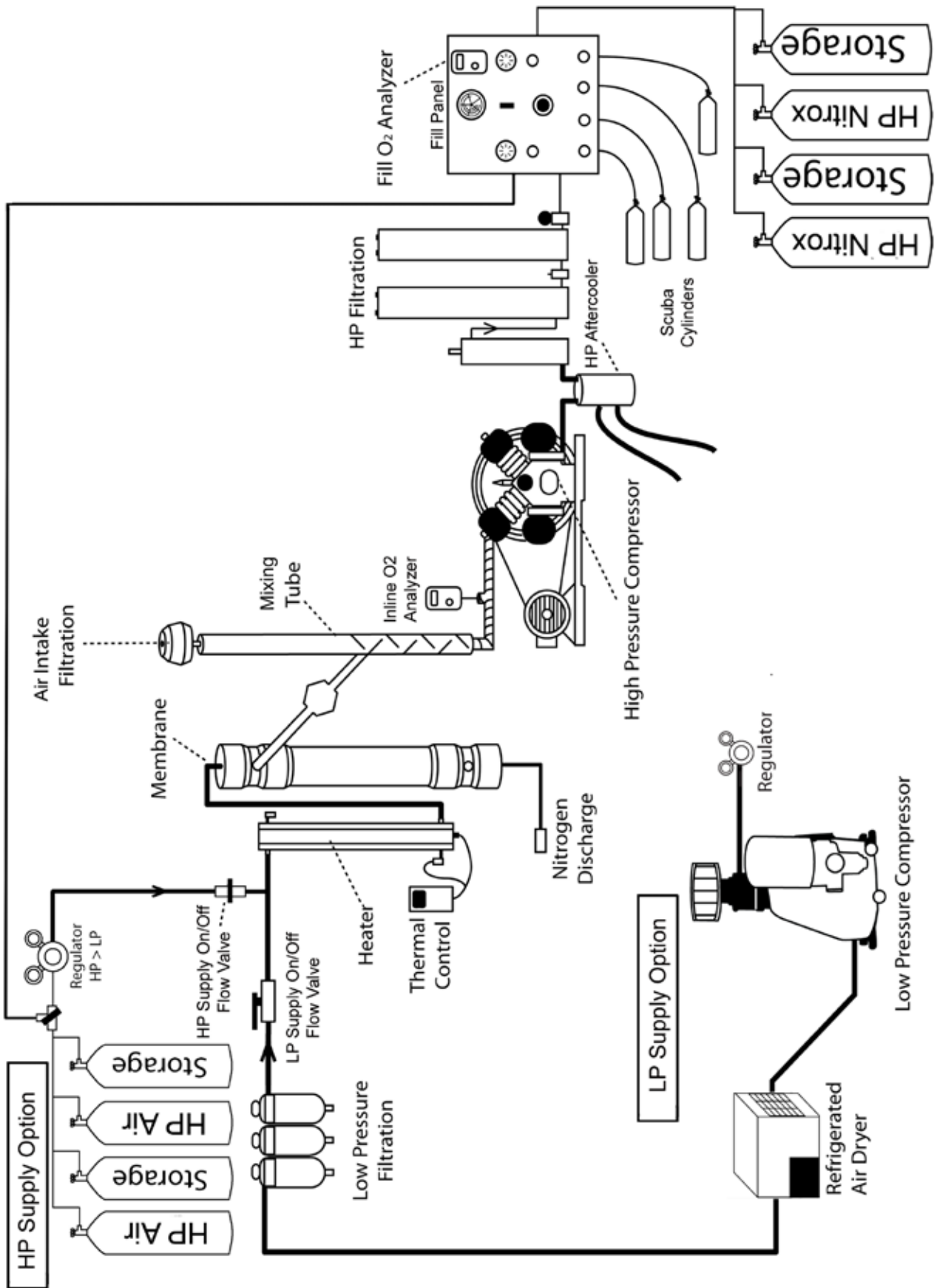


## 2 What is Nitrox?

# 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<br>1118 mm                                | 46 in<br>1168 mm                                | 66 in<br>1676 mm               | 46 in<br>1168 mm               | 66 in<br>1676 mm               | 66 in<br>1676 mm                |
|                          | Height                          | 30 in<br>762 mm                                 | 32 in<br>813 mm                                 | 32 in<br>813 mm                | 38 in<br>965 mm                | 38 in<br>965 mm                | 45 in<br>1143 mm                |
|                          | Depth                           | 6 in<br>152 mm                                  | 6 in<br>152 mm                                  | 6 in<br>152 mm                 | 6 in<br>152 mm                 | 6 in<br>152 mm                 | 6 in<br>152 mm                  |
|                          | Shipping Weight                 | 39 lb.<br>18 kg                                 | 44 lb.<br>20 kg                                 | 50 lb.<br>23 kg                | 58 lb.<br>27 kg                | 70 lb.<br>32 kg                | 90 lb.<br>41 kg                 |
| Temperature Requirements | Heater Electrical Specification | 7 A @ 110 VAC,<br>5 A @ 220 VAC,<br>50 or 60 Hz | 7 A @ 110 VAC,<br>5 A @ 220 VAC,<br>50 or 60 Hz | 10 A @ 220 VAC,<br>50 or 60 Hz | 10 A @ 220 VAC,<br>50 or 60 Hz | 10 A @ 220 VAC,<br>50 or 60 Hz | 10 A @ 220 VAC,<br>50 or 60 Hz  |
|                          | Membrane Temperature            | 110 +/-5°F<br>43 +/- 3°C                        | 110 +/-5°F<br>43 +/- 3°C                        | 110 +/-5°F<br>43 +/- 3°C       | 110 +/-5°F<br>43 +/- 3°C       | 110 +/-5°F<br>43 +/- 3°C       | 110 +/-5°F<br>43 +/- 3°C        |
| Input                    | Operating Pressure              | 80-170 psi<br>6-12 bar                          | 80-170 psi<br>6-12 bar                          | 80-170 psi<br>6-12 bar         | 80-170 psi<br>6-12 bar         | 80-170 psi<br>6-12 bar         | 80-170 psi<br>6-12 bar          |
|                          | Maximum Input Pressure          | 300 psi<br>(21 bar)                             | 300 psi<br>(21 bar)                             | 300 psi<br>(21 bar)            | 300 psi<br>(21 bar)            | 300 psi<br>(21 bar)            | 300 psi<br>(21 bar)             |
|                          | Supply Air Volume Range         | 4-15 SCFM<br>106-425 L/min.                     | 8-25 SCFM<br>212-708 L/min.                     | 13-40 SCFM<br>354-1133 L/min.  | 20-50 SCFM<br>566-1416 L/min.  | 25-80 SCFM<br>708-2266 L/min.  | 40-125 SCFM<br>1133-3540 L/min. |
|                          | LP / HP Supply Air Quality      | LP - Grade D<br>HP - Grade E                    | LP - Grade D<br>HP - Grade E                    | LP - Grade D<br>HP - Grade E   | LP - Grade D<br>HP - Grade E   | LP - Grade D<br>HP - Grade E   | LP - Grade D<br>HP - Grade E    |
| Out-put                  | 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<br>255-510 L/min. | 18-30 SCFM<br>510-850 L/min. | 30-48 SCFM<br>850-1359 L/min. | 48-60 SCFM<br>1359-1699 L/min. | 60-96 SCFM<br>1699-2719 L/min. | 96-150 SCFM<br>2719-4248 L/min. |
|                          | Horsepower - Electric                    | 3-7.5 hp<br>2.3-5.6 kW      | 7.5-10 hp<br>5.6-7.5 kW      | 10-15 hp<br>7.5-11 kW         | 15-20 hp<br>11-15 kW           | 20-30 hp<br>15-23 kW           | 40-50 hp<br>30-38 kW            |
|                          | Horsepower - Gas                         | 5.5-9 hp<br>4.1-6.8 kW      | 11-13 hp<br>8.3-10 kW        | 20-24 hp<br>15-18 kW          | N/A                            | N/A                            | N/A                             |
|                          | Horsepower - Diesel                      | 5.5-9 hp<br>4.1-6.8 kW      | 10 hp<br>7.5 kW              | 27 hp<br>20 kW                | 27 hp<br>20 kW                 | 40-50 hp<br>30-41 kW           | 54-75 hp<br>41-56 kW            |
| HP Nitrox Compressor     | Charging Rate                            | 3-6 SCFM<br>85-170 L/min..  | 6-10 SCFM<br>170-283 L/min.  | 10-16 SCFM<br>283-453 L/min.  | 16-20 SCFM<br>453-566 L/min.   | 20-32 SCFM<br>566-906 L/min.   | 32-50 SCFM<br>906-1416 L/min.   |
|                          | Horsepower - Electric                    | 3-5 hp<br>2.3-3.8 kW        | 5-7.5 hp<br>3.8-5.6 kW       | 10-15 hp<br>7.5-11 kW         | 15-20 hp<br>11-15 kW           | 20-25 hp<br>15-19 kW           | 25-40 hp<br>19-30 kW            |
|                          | Horsepower - Gas                         | 5.5-6.5 hp<br>4.1-4.9 kW    | 6.5-11 hp<br>4.9-8.3 kW      | 13-18 hp<br>10-14 kW          | 20-24 hp<br>15-16 kW           | N/A                            | N/A                             |
|                          | Horsepower - Diesel                      | 6-6.7 hp<br>4.5-5.0 kW      | 9-10 hp<br>6.8-7.5 kW        | 11-18 hp<br>8.3-14 kW         | 18-27 hp<br>14-20 kW           | 27-35 hp<br>20-26 kW           | 35-50 hp<br>26-38 kW            |
| LP Nitrox Compressor     | Delivery @175 PSI                        | N/A                         | N/A                          | 10-16 SCFM<br>283-453 L/min.  | 16-20 SCFM<br>453-566 L/min.   | 20-32 SCFM<br>566-906 L/min.   | 32-50 SCFM<br>906-1416 L/min.   |
|                          | Horsepower - Electric                    | N/A                         | N/A                          | 5 hp<br>3.8 kW                | 7.5 hp<br>5.6 kW               | 7.5-10 hp<br>5.6-7.5 kW        | 10-15 hp<br>7.5-11 kW           |
|                          | Horsepower - Gas                         | N/A                         | N/A                          | 9 hp<br>6.8 kW                | 11-13 hp<br>8.3-10 kW          | 13-18 hp<br>10-14 kW           | 20-24 hp<br>15-18 kW            |
|                          | Horsepower - Diesel                      | N/A                         | N/A                          | 9 hp<br>6.8 kW                | 10 hp<br>7.5 kW                | 27 hp<br>20 kW                 | 27 hp<br>20 kW                  |

## EAD Table

| ACTUAL<br>DEPTH | FO <sub>2</sub> | EAD    | PPO <sub>2</sub> | O <sub>2</sub><br>LIMITS | Nitrox<br>BOTTOM<br>TIME | NAVY AIR<br>BOTTOM<br>TIME | % TIME<br>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

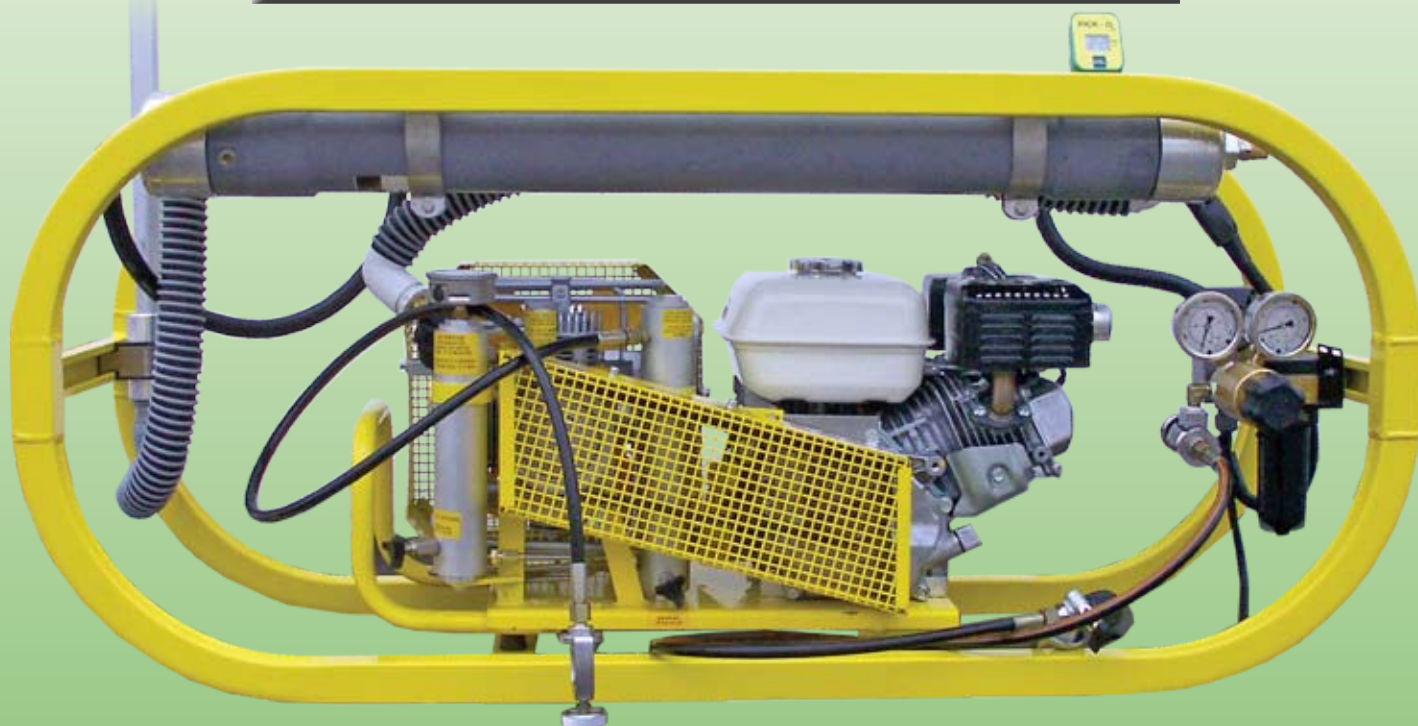
EAD = Equivalent Air Depth

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

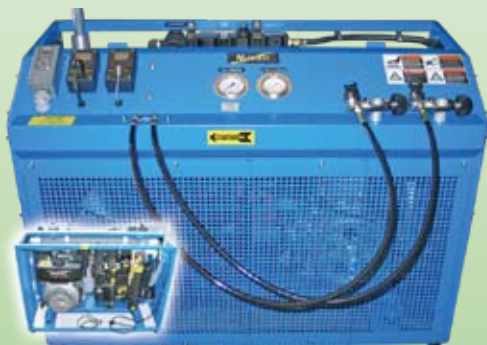
| Nitrox Traveler II Model |                         | Gas (Part# 7052G)            | Electric (Part# 7052E)       |
|--------------------------|-------------------------|------------------------------|------------------------------|
| Physical Specifications  | Height                  | 48 in (122 cm)               | 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       | 4-12 CFM (113-340 L/min.)    | 4-12 CFM (113-340 L/min.)    |
| HP Nitrox Compressor     | Optimum Temperature     | 110 +/- 5° F (43 +/-3° C)    | 110 +/- 5° F (43 +/-3° C)    |
|                          | 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 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<sub>2</sub> 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                   | 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 - E3 - 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**                       |
| Physical Specifications* | Height                        | 48 in (122 cm)             | 76 in (193 cm)               | 49 in (125 cm)               | 74 in (188 cm)               |
|                          | Width                         | 59 in (150 cm)             | 52 in (132 cm)               | 52 in (132 cm)               | 61 in (155 cm)               |
|                          | Depth                         | 30 in (76 cm)              | 34 in (86 cm)                | 34 in (86 cm)                | 42 in (107 cm)               |
|                          | Weight                        | 635 lbs (288 kg)           | 872 lbs (396 kg)             | 895 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)              |
| Full Load Amps           | 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                         |
| 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            | 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)   |
| Rated to Supply          | 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 280 ME Shown



LP 560 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**                        |
| Physical Specifications* | 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)                 |
| Full Load Amps           | 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                            |
| 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            | 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<br>(212-850 L/min.) | 10-36 SCFM<br>(280-1250 L/min.) | 13-60 SCFM<br>(354-1700 L/min.) | 25-80 SCFM<br>(708-2300 L/min.) |
|                          | Optimum Temperature           | 110 +/- 5° F<br>(43 +/- 3° C) | 110 +/- 5° F<br>(43 +/- 3° C)   | 110 +/- 5° F<br>(43 +/- 3° C)   | 110 +/- 5° F<br>(43 +/- 3° C)   |
| Rated to Supply          | 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          |                                             |                                        |
|-------------------------|---------------------------------------------|----------------------------------------|
| Physical Specifications | Height                                      | 52 in (133 cm)                         |
|                         | Width                                       | 38 in (97 cm)                          |
|                         | Depth                                       | 49 in (125 cm)                         |
|                         | Weight                                      | 840 lbs (382 kg)                       |
| Full Load Amps          | 230V - E1 - 50 or 60 Hz**                   | 53 A                                   |
|                         | 230V - E1 - 50 or 60 Hz                     | 49 A                                   |
|                         | 400V - E1 - 50 or 60 Hz                     | 28 A                                   |
| LP Compressor           | Capacity @ 175 psi<br>Horsepower - Electric | 23 CFM (665 L/min.)<br>7.5 hp (5.5 kW) |
| Volume Tank             | Capacity                                    | 15 gal (57 L)                          |
| Membrane Input          | 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°)             |
| HP Nitrox Compressor    | 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)
- Nuvair 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

| Nitrox Generator Model  |                                     | Voyager II                    | Voyager III                    | Voyager IV                     |
|-------------------------|-------------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Physical Specifications | Height                              | 62 in (158 cm)                | 67 in (170 cm)                 | 67 in (170 cm)                 |
|                         | Width                               | 57 in (145 cm)                | 62 in (158 cm)                 | 62 in (158 cm)                 |
|                         | Depth                               | 32 in (81 cm)                 | 35 in (89 cm)                  | 35 in (89 cm)                  |
|                         | Weight                              | 1150 lbs (522 kg)             | 1400 lbs (635 kg)              | 1450 lbs (658 kg)              |
| Full Load Amps          | 460V - E1 - 50 or 60 Hz             | 30 A                          | 38.5 A                         | 51 A                           |
|                         | 400V - E1 - 50 or 60 Hz             | 35 A                          | 44.5 A                         | 59 A                           |
|                         | 230V - E1 - 50 or 60 Hz             | 60 A                          | 77 A                           | 102 A                          |
|                         | 230V - E1 - 50 or 60 Hz             | 79 A                          | 86 A                           | N/A                            |
| LP Compressor           | Capacity @ 175 psi Pump             | 30 CFM (850 L/min.)<br>RVK 10 | 44 CFM (1250 L/min.)<br>RVK 15 | 59 CFM (1670 L/min.)<br>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<br>(263 L/min.)       | 11 CFM<br>(311 L/min.)         | 17 CFM<br>(481 L/min.)         |

## Nuvair LP Nitrox Surface Supply



LP > LP 12



R30 > R15



RVK > R15

### 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<sub>2</sub> Automatic Shut Down
- CO and/or CO<sub>2</sub> Analyzer
- Low Pressure Warning Alarm



RVK > Q325



## 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<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                          | R30 > R15                           | RVK > R15                           | RVK > Q325                          |
|--------------------------------------|----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Physical Specifications              | Height                     | 57 in (145 cm)                      | 70 in (178 cm)                      | 62 in (157 cm)                      | 62 in (157 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)                       | 35 in (89 cm)                       |
|                                      | Weight                     | 624 lbs (284 kg)                    | 1150 lbs (523 kg)                   | 1400 lbs (636 kg)                   | 1470 lbs (668 kg)                   |
| Maximum Pressure CFM (LPM) Output    | Make                       | Champion R15                        | Champion R30                        | Rotair RVK                          | Rotair RVK                          |
|                                      | Maximum Pressure           | 175 PSI (12 bar)                    | 175 PSI (12 bar)                    | 175 PSI (12 bar)                    | 175 PSI (12 bar)                    |
| 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                       | ABAC                                | Champion R15                        | Champion R15                        | Quincy 325                          |
|                                      | Maximum Pressure CFM (LPM) | 150 PSI (10 bar)<br>12 (340 L/min.) | 175 PSI (12 bar)<br>15 (425 L/min.) | 175 PSI (12 bar)<br>16 (453 L/min.) | 250 PSI (17 bar)<br>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                              | Kohler                              |
|                                      | Power                      | 19 hp (15.2 kW)                     | 28.5 hp (21.3 kW)                   | 28.5 hp (21.3 kW)                   | 28.5 hp (21.3 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 > 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<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 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 > Nuvair 26 D Model |          |                     |                        |
|--------------------------------|----------|---------------------|------------------------|
| Physical Specifications        | Height   |                     | 60 in (152.4 cm)       |
|                                | Width    |                     | 86 in (218.4 cm)       |
|                                | 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 > Nuvair 26 E

## Advantages

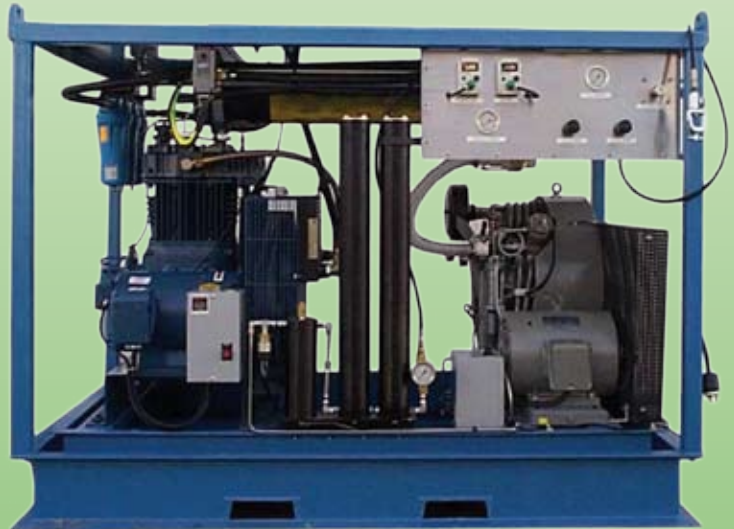
- Complete state-of-the-art LP/HP Nitrox Generating System
- Compressors can be used independently to provide HP or LP air, or together to provide HP Nitrox.
- Produces a constant flow of Nitrox from 22% to 40% @ 26.4 SCFM.

## Nitrox Membrane System

- (2) Pro O<sub>2</sub> Analyzers, One with In-line Sensor
- Air Intake<sup>2</sup> 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 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<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 > Nuvair 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              |                               |                                             | 7056.2                              | 7056.4                                        | 7056.3                                   | 7056.5                                    |
| 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)<br>23 (651 L/min.)         | 175 PSI (12 bar)<br>32 (900 L/min.) | 175 PSI (12 bar)<br>39 (1100 L/min.)          | 175 PSI (12 bar)<br>36 (1020 L/min.)     | 175 PSI (12 bar)<br>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                   | Honda Gas                                   | Kubota Diesel                       | Honda Gas                                     | Kohler Diesel                            | Kohler Diesel                             |
|                          | Model Power                   | GX390U1QNR2<br>11 hp (8.2 kW)<br>@ 3600 rpm | Z602<br>13 hp (10.4 kW)             | GX670UTXF2<br>20.5 hp (15.3 kW)<br>@ 3600 rpm | 25LD425-2<br>19 hp (14 kW)<br>@ 3600 rpm | 9LD626-2<br>28.5 hp (21 kW)<br>@ 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



### 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

### MCH36D Pictured



### 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                     | 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)          |
| Engine Specifications       | Depth                      | 32 in. (81.3 cm)             | 32 in. (81.3 cm)           | 32 in. (81.3 cm)           |
|                             | Weight                     | 710 lbs (322 kg)             | 760 lbs (345 kg)           | 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<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

| 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<br>(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# 8016.4)**                    | 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:<br>(H x W x D) | 15.5 in x 26.5 in x 15 in<br>(39 x 67 x 38 cm) | 15 in x 26 in x 15 in<br>(38 x 65 x 38 cm) | 15 in x 31 in x 14 in<br>(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                                 |
|------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| <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<br>(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)                                  | 5.5 hp (4 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:<br/>(H x W x D)</b> | 19 in x 29 in x 14.5 in<br>(48 x 74 x 37 cm) | 19 in x 29 in x 14.5 in<br>(48 x 74 x 37 cm) | 19 in x 29 in x 14.5 in<br>(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>      | 75 dB                                        | 81 dB                                      | 82 dB                                      |
| <b>Dimensions:<br/>(H x W x D)</b> | 25 in x 34 in x 18 in<br>(64 x 86 x 45 cm)   | 25 in x 34 in x 18 in<br>(64 x 86 x 45 cm) | 25 in x 34 in x 18 in<br>(64 x 86 x 45 cm) |
| <b>Weight</b>                      | 218 lbs (99 kg)                              | 218 lbs (99 kg)                            | 240 lbs (109 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

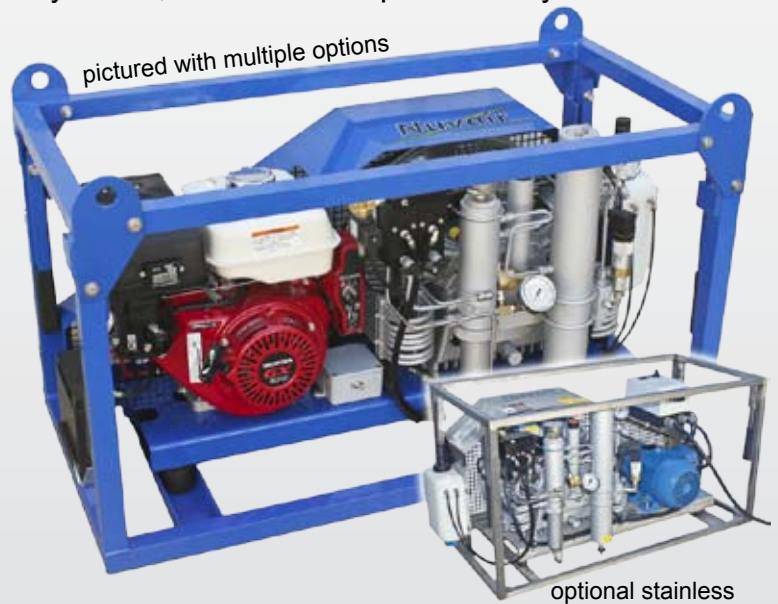
The Mini Tech is our go to Compressor set up for a wide variety of applications in both breathing air and industrial air use. Compact design and fold away handles make for easy lifting and portability of the compressor. On board Grade E air purification insures breathing air quality standards. A wide variety of customized options to meet individual needs are noted on the options list below. 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                                  |
|---------------------------------------|----------------------------------------------|--------------------------------------------|
| <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***:<br/>(H x W x D)</b> | 33 in x 35 in x 24 in<br>(84 x 89 x 60 cm)   | 33 in x 35 in x 24 in<br>(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                                  |
|----------------------------|----------------------------------------------|---------------------------------------------|
| 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:<br>(H x W x D) | 53 in x 35 in x 34 in<br>(133 x 89 x 85 cm)  | 53 in x 35 in x 34 in<br>(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 contaminants.

### 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/<br>Manual | Dual/Single<br>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<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#9455)**

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| <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)

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

Three Styles of Oxygen Analyzers to Accommodate Most Applications:

*The Standard for Monitoring Nitrox*



## Pro O<sub>2</sub><sup>™</sup> Advantages

(Part#9450)

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



## Pro O<sub>2</sub> Remote<sup>™</sup> Panel Mount

### Advantages

(Part#9460)

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



## Pro O<sub>2</sub> Remote<sup>™</sup> 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<sub>2</sub><sup>\*</sup>**

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| <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)

# 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            | 32-104°F (0-40°C)                              |
| Storage Temperature              | 32-122°F (0-50°C)                              |
| Display                          | 3 1/2 in LCD                                   |
| Battery Life                     | Approximately 150 Hours Continuous Use         |

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

# 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)

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

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



# 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 CO2

*The Carbon Dioxide Analyzer For the Safe Diver*

## 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 25 seconds
- Low Battery Warning Indicator
- 1 ppm CO<sub>2</sub> Resolution on Digital Display
- Switchable Ranges of 0-500 ppm and 0-2000 ppmCO<sub>2</sub>



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

|                                                      |                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------|
| Maximum Gas Flow Rate                                | 650 mL/min.                                                       |
| Accuracy (assumes accurate recent calibration)       | Better than $\pm 2$ ppm                                           |
| Repeatability (assumes stable atm press and temp)    | Better than $\pm 1$ ppm                                           |
| Maximum Drift (per year)                             | $\pm 100$ ppm                                                     |
| Response Time (@ 250 mL/min.; to 95% of final value) | ca. 25 sec                                                        |
| Warm up time (@22° C)                                | ca. 5 min.                                                        |
| Output (linear) for Low Sensitivity Setting          | 0-5 VDC for 0-2000 ppm                                            |
| Output (linear) for High Sensitivity Setting         | 0-5 VDC for 0-500 ppm                                             |
| Calibration Adjustments                              | Zero and Span                                                     |
| Operating Temperature Range                          | 0 to 50° C                                                        |
| Storage Temperature Range                            | -40 to 70° C                                                      |
| Operating Pressure Range                             | $\pm 1.5\%$ Local Mean Pressure                                   |
| Humidity Range                                       | 5 to 95% RH, Non-Condensing                                       |
| Power Requirements                                   | 15 VDC via 120 VAC/60 Hz Adapter or Rechargeable Internal Battery |
| Battery Operation                                    | Up to 90 Minutes                                                  |
| Battery Type                                         | Sealed Lead-Acid                                                  |
| Battery Voltage/Rating                               | 12 VDC @ 0.5 Ah                                                   |
| Recharge Time                                        | 6-8 Hours                                                         |
| Operating Lifetime                                   | 500 Recharges                                                     |
| Dimensions (H x W x D)                               | 14.5 in x 8 in x 7.5 in (36.8 x 20x 19 cm)                        |
| Weight                                               | 500 g                                                             |
| Warranty                                             | 1 Year Limited                                                    |

\*Specifications subject to change without notice.

# Nuvair™ 455

## 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

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

# Nuvair™ 546

## 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

| <u>Typical Properties</u>               | <u>ASTM Test Method</u> | <u>Nuvair™ 546</u> |
|-----------------------------------------|-------------------------|--------------------|
| SAE Grade                               |                         | 20                 |
| ISO Viscosity Grade                     | D-2422                  | 46                 |
| Viscosity,<br>cSt @ 104°F<br>cSt @ 40°C | D-445                   | 46 cSt             |
| Viscosity Index                         | D-2270                  | 145                |
| Pour Point<br>°C<br>°F                  | D-97<br>D-97            | -54<br>-65         |
| Flash Point<br>°C<br>°F                 | D-92<br>D-92            | 260<br>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

## 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



| <u>Typical Properties</u>               | <u>ASTM Test Method</u> | <u>Nuvair™ 751</u> |
|-----------------------------------------|-------------------------|--------------------|
| SAE Grade                               |                         | 40                 |
| ISO Viscosity Grade                     | D-2422                  | 150                |
| Viscosity,<br>cSt @ 104°F<br>cSt @ 40°C | D-445                   | 164cSt             |
| Viscosity Index                         | D-2270                  | 80                 |
| Pour Point<br>°C<br>°F                  | D-97<br>D-97            | -34<br>-30         |
| Flash Point<br>°C<br>°F                 | D-92<br>D-92            | 271<br>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

### 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

| <u>Typical Properties</u>                                                    | <u>ASTM Test Method</u>      | <u>Nuvair™ 800</u>             |
|------------------------------------------------------------------------------|------------------------------|--------------------------------|
| ISO Viscosity Grade                                                          | D2422                        | 150                            |
| Viscosity<br>cSt. @ 100° C<br>cSt. @ 40° C<br>cSt. @ 210° F<br>cSt. @ 100° F | D445<br>D445<br>D445<br>D445 | 14.1<br>145.9<br>13.6<br>175.1 |
| Pour Point<br>°C<br>°F                                                       | D97<br>D97                   | -29<br>-20                     |
| Flash Point<br>°C<br>°F                                                      | D92<br>D92                   | 287<br>550                     |
| Auto Ignition Temp<br>°C<br>°F                                               | D1255<br>D1255               | 390<br>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*

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