



Nuvair Product Catalog

Compressed gas solutions for any situation



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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 (HP) compressor to fill scuba cylinders or storage tanks or to a low pressure (LP) compressor for pumping to surface-supplied 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 and pressurized air for separation. The two most common sources are a 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 psi (17 bar) for LP Supply and 5000 psi (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 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 "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 psi (9 bar), then adjusting the regulator to 125 psi (9 bar) during the next use will produce the same mixture.

WHY USE THE NUVAIR NITROX MEMBRANE SYSTEM?

Simple

- Complete turnkey operation
- Easiest, most stable system available
- Adjust regulated input for desired O₂ %
- Only 1 hour operator training required
- 2 hour average installation
- No compressor modifications

Reliable

- Mix accurate to 0.1%
- 20-30 year membrane life
- Limited 3 year membrane warranty

Versatile

- Pump 22-40% nitrox
- 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 aboards
- Compact and lightweight
- Trimix systems available

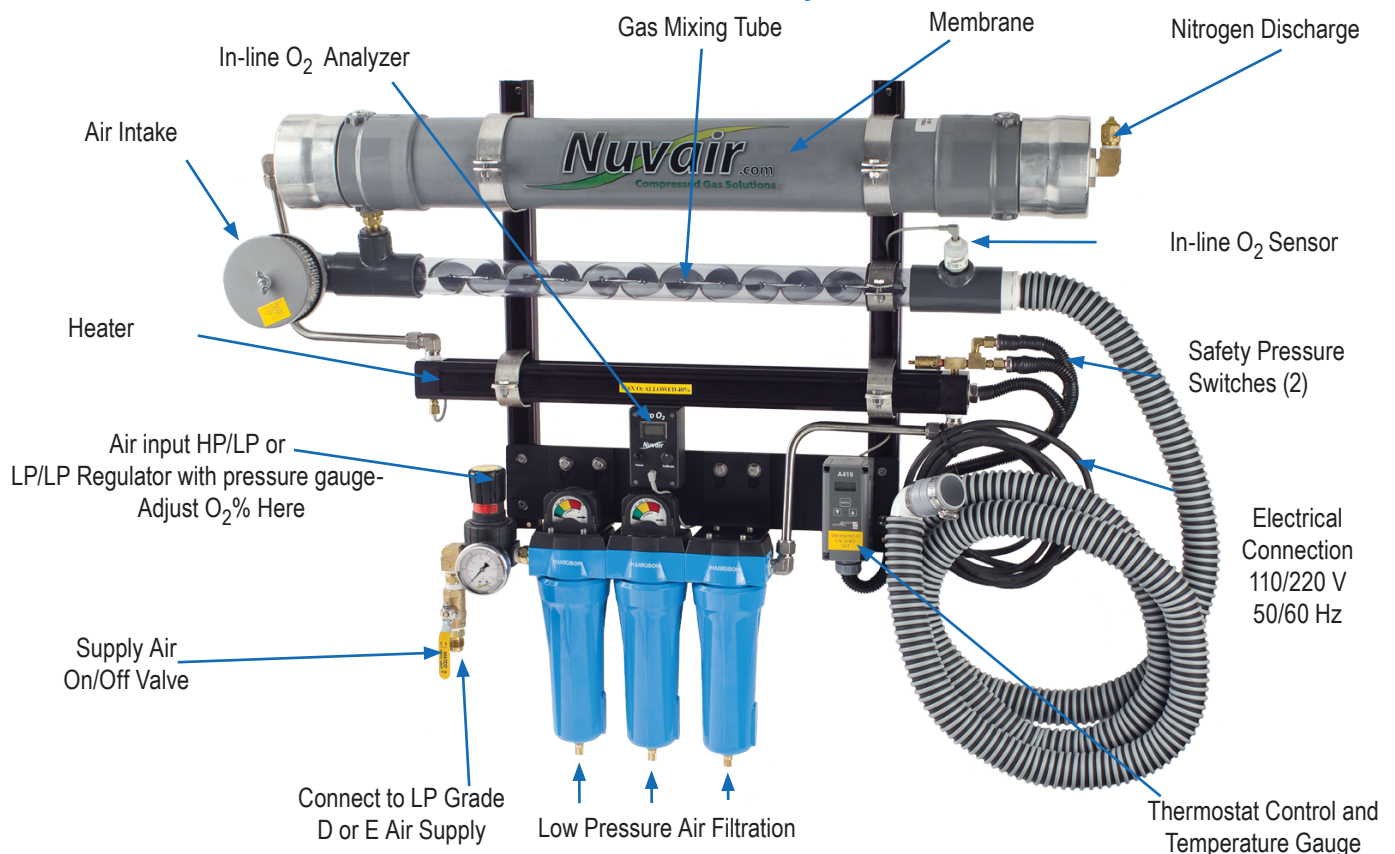
Practical

- Replaces partial pressure or continuous blending
- No O₂ 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 shutdown

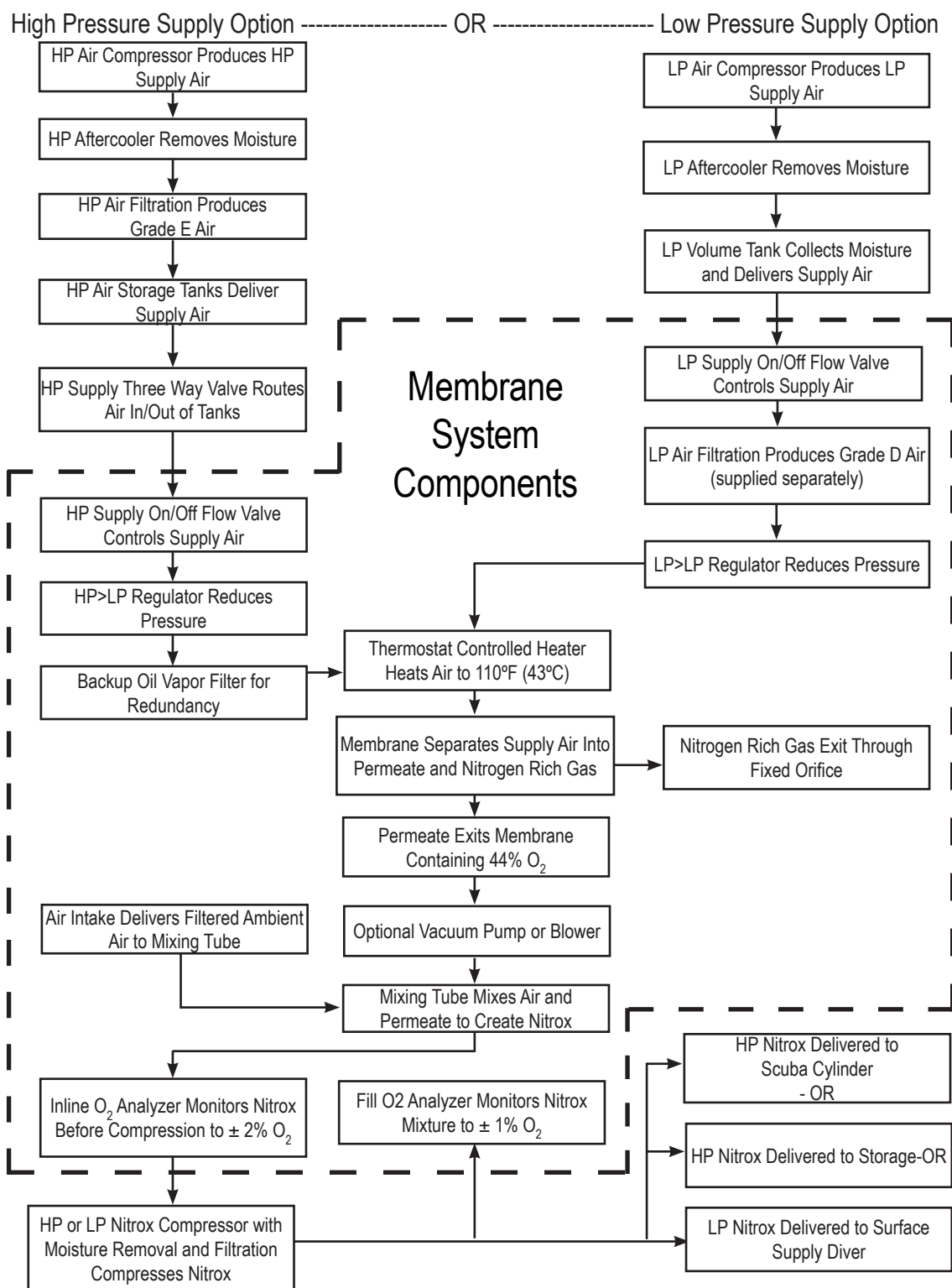
Cost-Effective

- 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

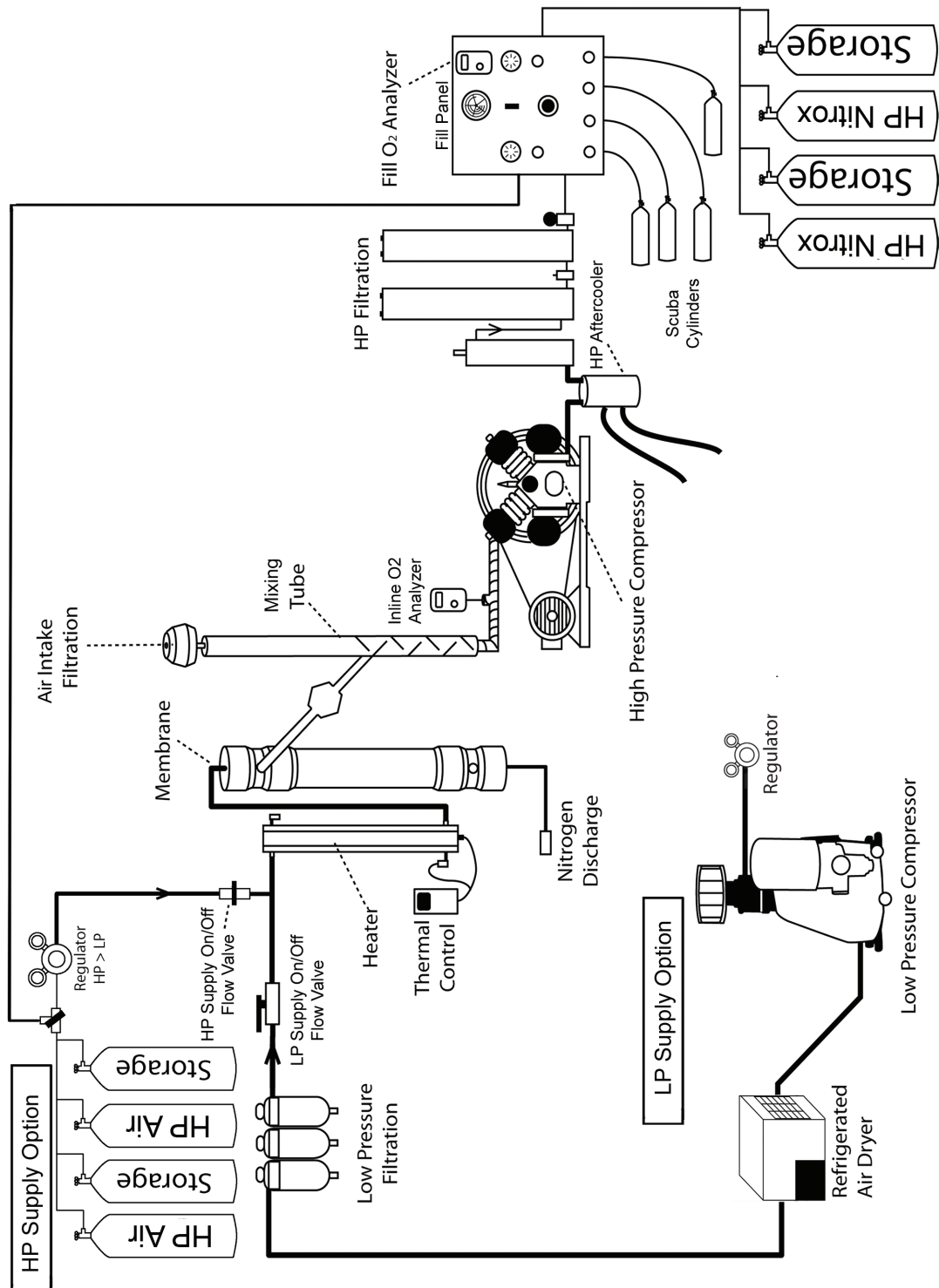
Nuvair Membrane System



NITROX MEMBRANE SYSTEM FLOW CHART



SYSTEM DIAGRAM



MEMBRANE SYSTEM FLOW CHART

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

Compressor Recommendations

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

EAD TABLE

ACTUAL DEPTH	FO ₂	EAD	PPO ₂	O ₂ LIMITS	Nitrox BOTTOM TIME	NAVY AIR BOTTOM TIME	% TIME INCREASED
40	36%	26	0.80	450	NO LIMIT	200	-
45	37%	29	0.87	360	NO LIMIT	100	-
50	37%	33	0.93	300	310	100	210%
55	39%	35	1.04	240	310	60	417%
60	40%	38	1.13	210	200	60	233%
65	40%	41	1.19	210	100	50	100%
70	40%	45	1.25	180	100	50	100%
70	38%	48	1.19	210	100	50	100%
75	40%	49	1.31	150	100	40	150%
75	36%	54	1.18	210	60	40	50%
80	40%	53	1.37	150	60	40	50%
80	35%	60	1.20	210	60	40	50%
85	39%	58	1.39	150	60	30	100%
85	33%	67	1.18	210	50	30	67%
90	37%	65	1.38	150	50	30	67%
90	34%	70	1.27	180	50	30	67%
95	36%	71	1.40	150	40	25	60%
95	31%	79	1.20	210	40	25	60%
100	34%	78	1.37	150	40	25	60%
100	33%	80	1.33	150	40	25	60%
105	33%	84	1.38	150	30	20	50%
105	30%	89	1.25	180	30	20	50%
110	32%	90	1.39	150	25	20	25%
110	30%	94	1.30	180	25	20	25%
115	31%	96	1.39	150	25	15	67%
115	30%	98	1.35	150	25	15	67%
120	30%	103	1.39	150	20	15	33%
120	27%	108	1.25	180	20	15	33%
125	29%	109	1.39	150	20	10	100%
130	26%	120	1.28	180	15	10	50%

This is a not to be used as a dive table. Please refer to published dive tables.

FO₂ = Oxygen Fraction

EAD = Equivalent Air Depth

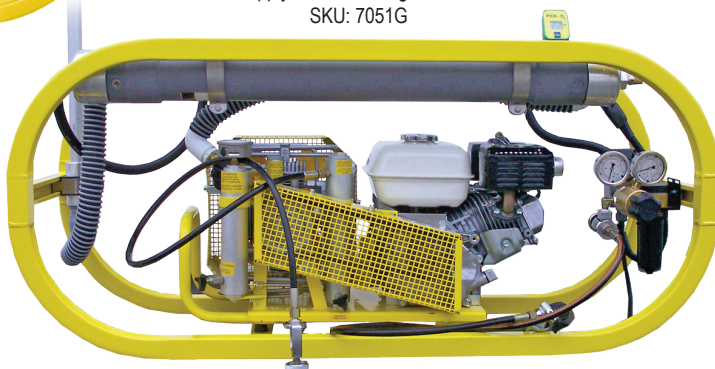
PPO₂= Partial Pressure of Oxygen

The Nuvair Traveler supplies air or up to 40% nitrox at 3600 psi. HP air from scuba cylinders or storage tanks, along with a regulator, can be used to supply membrane with LP air to make nitrox. Simple to operate, reliable and versatile, without the hassles or hazards of O₂ blending. It is also portable and lightweight, making for easy transport.



LP Supply Filtration / Regulator Shown
SKU: 7051

HP Supply Filtration / Regulator Shown
SKU: 7051G



FEATURES

- 6 CFM Nitrox Membrane System with O₂ analyzer
- Electric (single or three-phase) or gas power
- HP compressor – pump air to 4500 psi (310 bar), nitrox to 3600 psi (250 bar)
- Rigid powder coated, welded aluminum frame
- HP produces its own high pressure supply air*

OPTIONS

- Automatic HP condensate drains
- Automatic fill pressure stop
- High temperature shutdown
- Hour meter
- Stainless steel compressor frame
- Available in high or low pressure feed

SPECIFICATIONS

Motor Options	
115 V / E1 / 50 Hz	12 amps SKU: 7051.0-HP
208-230 V / E1 / 60 Hz	17 amps SKU: 7051.1-HP
208-230 V / E3 / 60 Hz	12 amps SKU: 7051.2-HP
Membrane Operating Pressure	90-165 psi (6-11 bar)
Membrane Supply Air Volume	4-11 SCFM (113-312 L/min)
Membrane Optimum Temperature	110 ± 5°F (43° ± 3°C)
Nitrox Charging Rate	3.4-4.2 SCFM (95 - 119 L/min)
Nitrox Fill Time**	20-25 min
Power - Electric	3-4 hp (2.2-3 kW)
Power - Gas	5.5 hp (4 kW)
Dimensions	51 x 16 x 22 in (130 x 41 x 56 cm)
Weight	134-140 lbs (61-64 kg)

* Using two scuba-sized tanks, one tank can provide high pressure air for nitrox generation and the second tank filled with the nitrox produced.

** Based on 80 cu ft cylinder from 500 to 3000 psi.

NUVAIR TRAVELER II

This complete turnkey nitrox system is built for the diver who 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).

FEATURES

- Four stage 4.2 SCFM* high pressure compressor
- 21-40% nitrox fills
- Nuvair 6 CFM membrane system
- Pro O₂ Analyzer for fill O₂%
- Pick O₂ Analyzer for permeate in-line O₂%
- 110 or 220 volt thermostatically controlled heater
- LP > LP regulator for O₂% 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 shutdown
- Automatic fill pressure shutdown
- Preset maximum fill blocks 3000 psi (200 bar) and 4500 psi (310 bar)
- Solar charger
- Electric motor, 220 volt single or three-phase, 50 or 60 Hz



SPECIFICATIONS

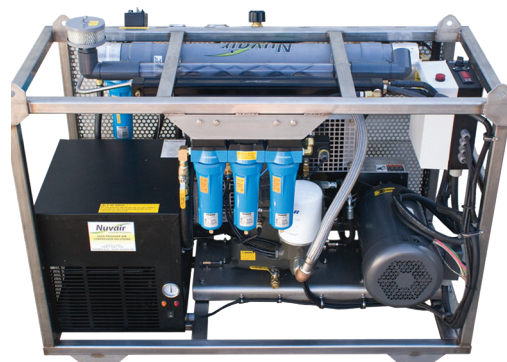
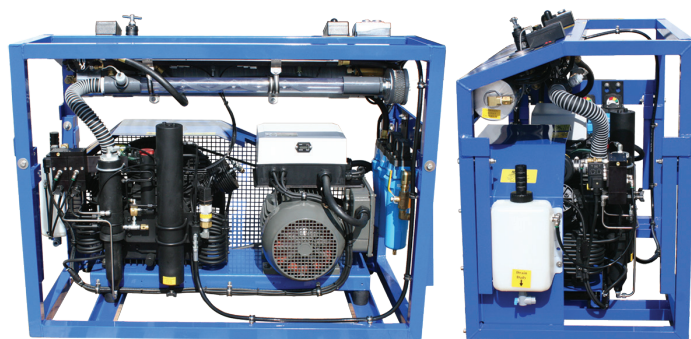
	Gas SKU: 7052G	Electric SKU: 7052E
Dimensions (L x W x H)	57 x 23 x 49 in	57 x 23 x 49 in
Weight	(145 x 58 x 124 cm)	(145 x 58 x 124 cm)
LP Compressor	430 lbs (195 kg)	410 lbs (186 kg)
Capacity @ 175 psi	14.5 CFM (410 L/min)	14.5 CFM (410 L/min)
Volume Tank	15 gal (57 L)	15 gal (57 L)
Membrane Input		
Operating Pressure	90-165 psi (6-11 bar)	90-165 psi (6-11 bar)
Supply Air Volume	4-12 SCFM (113-340 L/min)	4-12 SCFM (113-340 L/min)
Optimum Temperature	110 ± 5°F (43° ± 3°C)	110 ± 5°F (43° ± 3°C)
HP Nitrox Compressor		
Output	3.5 SCFM (100 L/min)	3.5 SCFM (100 L/min)
Charging Rate*	4.2 SCFM	4.2 SCFM
Fill Time*	22 min	22 min
Power - Electric	N/A	7.5 hp (5.5 kW)
Power - Gas	11 hp (8.2 kW)	N/A

*Based on 80 cu ft cylinder from 500 to 3000 psi.

HP and LP ELEMENT

ADVANTAGES

- Pump HP or LP air or nitrox containing 22 - 40% oxygen
- None of the costs, hassles or hazards of O₂ 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) O₂ Analyzers
- Electric (single / three-phase), Honda gas or Yanmar diesel
- Portable with (4) integral lifting handles
- HP compressor – pump air to 4500 psi, nitrox to 3600 psi
- Fill time 7.5 minutes*
- Motor starter / electric start
- Grade E filtration

OPTIONS

- Automatic HP condensate drains
- Automatic fill pressure stop
- Low oil and/or high temperature shutdown
- HP interstage pressure gauges
- Hour meter

ELEMENT LP FEATURES

- 10 CFM Nitrox Membrane System with (2) O₂ Analyzers
- Electric (single or three-phase), Honda gas or Yanmar diesel
- Portable with (4) integral lifting handles
- Supply nitrox to an HP or LP compressor
- Grade D LP filtration for membrane

OPTIONS

- Refrigerated air dryer
- High temperature shutdown
- Stainless steel enclosure
- Seawater / freshwater

SPECIFICATIONS

	HP	LP
208-230 V / E1 / 60 Hz	39 amps SKU: 7053-16.1HPF	39 amps SKU: 7053-16.1LPF
208-230 V / E3 / 60 Hz	25 amps SKU: 7053-16.2HPF	25 amps SKU: 7053-16.2LPF
380-415 V / E3 / 50 Hz	16 amps SKU: 7053-16.6HPF	16 amps SKU: 7053-16.6LPF
440-480 V / E3 / 60 Hz	11 amps SKU: 7053-16.3HPF	11 amps SKU: 7053-16.3LPF
Yanmar Diesel	SKU: 7053-16.HPF-D (electric start)	SKU: 7054-16.HPF-D (electric start)
Honda Gas	SKU: 7053-16.HPF-G (electric start)	SKU: 7054-16.HPF-G (electric start)
Required Supply @ 175 psi	Requires 23 CFM (665 L/min)	Requires 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 (368-708 L/min)	13-25 SCFM (368-708 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 (212-708 L/min)
Power - Electric	7.5 hp (5.5 kW)	5-7.5 hp (3.8-5.5 kW)
Power - Gas	9-11 hp (6.6-8.3 kW)	11-13 hp (8.3-9.7 kW)
Power - Diesel	9 hp (6.6 kW)	9-10 hp (6.6-7.5 kW)
Dimensions (L x W x H)	46 x 25 x 36.5 in (117 x 63.5 x 93 cm)	46 x 25 x 36.5 in (117 x 63.5 x 93 cm)
Weight	352-450 lbs (160-177 kg)	400-510 lbs (182-232 kg)

*Based on 80 cu ft cylinder from 500 to 3000 psi.

NUVAIR LP280 / 300 / 450 / 600 NITROX GENERATOR

FEATURES

- Silenced cabinet
- Nitrox membrane system with (2) O₂ analyzers
- EK76 rotary screw compressor
- Hankison LP filtration for membrane system
- Refrigerated air dryer for long filter life
- Automatic condensate drains
- Automatic shutdown for high pressure and temperature
- Soft start

ADVANTAGES

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



SPECIFICATIONS

	LP280 10 hp (7.5 kW)	LP300 10 hp (7.5 kW)	LP450 15 hp (11 kW)	LP600 20 hp (15 kW)
208-230 V / E1 / 60 Hz	54 amps SKU: 7060.1-EK76-DRYER	N/A	N/A	N/A
208-230 V / E3 / 60 Hz**	N/A	30 amps SKU: 7060.2-EK76-DRYER	48 amps SKU: 7061.2-EK76-DRYER	64 amps SKU: 7062.2-EK76-DRYER
380-415 V / E3 / 50 Hz	N/A	19 amps SKU: 7060.6-EK76-DRYER	24 amps SKU: 7061.6-EK76-DRYER	38 amps SKU: 7062.6-EK76-DRYER
440-480 V / E3 / 60 Hz	N/A	16 amps SKU: 7060.3-EK76-DRYER	21 amps SKU: 7061.3-EK76-DRYER	33 amps SKU: 7062.3-EK76-DRYER
Required Supply @ 175 psi	29 CFM (821 L/min)	29 CFM (821 L/min)	46 CFM (1303 L/min)	57 CFM (1614 L/min)
Membrane Input				
Operating Pressure	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)
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				
FAD for 40% O ₂	10 CFM (280 L/min)	11 CFM (311 L/min)	16 CFM (450 L/min)	21 CFM (594 L/min)
FAD for 36% O ₂	12.5 CFM (350 L/min)	14 CFM (396 L/min)	20 CFM (566 L/min)	26.5 CFM (750 L/min)
FAD for 32% O ₂	17 CFM (480 L/min)	19 CFM (538 L/min)	27.5 CFM (779 L/min)	36 CFM (1019 L/min)
Dimensions (L x W x H)	49 x 45.5 x 61 in (125 x 116 x 155 cm)	49 x 45.5 x 61 in (125 x 116 x 155 cm)	49 x 45.5 x 61 in (125 x 116 x 155 cm)	49 x 45.5 x 61 in (125 x 116 x 155 cm)
Weight*	1060 lbs (481 kg)	1050 lbs (476 kg)	1051 lbs (477 kg)	1110 lbs (503 kg)

*Model weight may vary depending on the electronic motor type. ** For information on 50 Hz models, contact your sales representative.

FEATURES

- Water cooled; heat exchangers use fresh or seawater for air and oil cooling
- Nitrox membrane system with (2) O₂ analyzers
- EK76 rotary screw compressor
- Hankison LP filtration for membrane system
- Refrigerated air dryer for long filter life
- Manual back pressure regulator control for O₂% adjustment
- Automatic condensate drains
- Automatic shutdown for high pressure and high temperature
- Compressor pressure is modulation controlled
- Marine grade aluminum frame with stainless steel motor plate
- Soft start

ADVANTAGES

- Cost-effective nitrox system
- Supply LP nitrox containing up to 40% oxygen
- Lower costs, less hassles and hazards compared to O₂ blending
- Systems to fit most HP compressors
- Water cooling and compact size allow installation below deck in hot engine rooms with limited space
- Marine grade heat exchangers with replaceable zinc anodes
- Soft start for reduced amperage draw on start



OPTIONS

- Nitrox manager
- Low / high O₂, CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Frequency drive for easy start
- Sound shield

SPECIFICATIONS

	LP280 10 hp (7.5 kW)	LP300 10 hp (7.5 kW)	LP450 15 hp (11 kW)	LP600 20 hp (15 kW)
208-230 V / E1 / 60 Hz	50 amps SKU: 7060.1ME-EK76-WC	N/A	N/A	N/A
208-230 V / E3 / 60 Hz*	N/A	33 amps SKU: 7060.2ME-EK76-WC	47 amps SKU: 7061.2ME-EK76-WC	63 amps SKU: 7062.2ME-EK76-WC
380-415 V / E3 / 50 Hz	N/A	18 amps SKU: 7060.6ME-EK76-WC	22 amps SKU: 7061.6ME-EK76-WC	29 amps SKU: 7062.6ME-EK76-WC
440-480 V / E3 / 60 Hz	N/A	15 amps SKU: 7060.3ME-EK76-WC	21 amps SKU: 7061.3ME-EK76-WC	29 amps SKU: 7062.3ME-EK76-WC
LP Compressor				
Capacity @ 175 psi	29 CFM (821 L/min)	29 CFM (821 L/min)	46 CFM (1303 L/min)	57 CFM (1614 L/min)
Membrane Input				
Operating Pressure	100-175 psi (7-12 bar)	100 - 175 psi (7-12 bar)	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)
Supply Air Volume	8-30 SCFM (227-850 L/min)	8-30 SCFM (227-850 L/min)	10-44 SCFM (283-1246 L/min)	13-60 SCFM (368-1699 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)
Dimensions	44.5 x 9 x 35.5 in (113 x 23 x 90 cm)	44.5 x 9 x 35.5 in (113 x 23 x 90 cm)	69.5 x 14 x 35.5 in (177 x 36 x 90)	44.5 x 9 x 43 in (113 x 23 x 109 cm)
Rated to Supply				
FAD for 40% O ₂	10 CFM (280 L/min)	11 CFM (311 L/min)	16 CFM (450 L/min)	21 CFM (600 L/min)
FAD for 36% O ₂	12.5 CFM (350 L/min)	14 CFM (396 L/min)	20 CFM (566 L/min)	26.5 CFM (750 L/min)
FAD for 32% O ₂	17 CFM (480 L/min)	19 CFM (538 L/min)	27.5 CFM (780 L/min)	36 CFM (1018 L/min)
Dimensions (L x W x H)	41.5 x 27 x 40.5 in (105 x 68.6 x 103 cm)	41.5 x 27 x 40.5 in (105 x 68.6 x 103 cm)	45.5 x 29.5 x 40.5 in 116 x (116 x 75 x 103 cm)	45.5 x 29.5 x 40.5 in 116 x (116 x 75 x 103 cm))
Weight	580 lbs (263 kg)	570 lbs (259 kg)	620 lbs (281 kg)	740 lbs (336 kg)

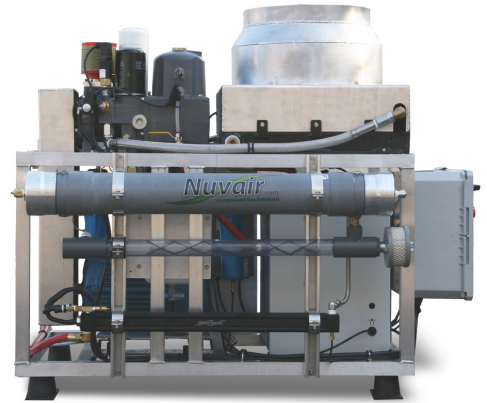
* For information on 50 Hz models, contact your sales representative.

NUVAIR LP280 / 300 / 450 / 600

AIR COOLED MARINE NITROX GENERATOR

FEATURES

- Air cooled
- Nitrox membrane system with (2) O₂ analyzers
- CompAir rotary screw compressor
- Hankison LP filtration for membrane system
- Refrigerated air dryer for long filter life
- Manual back pressure regulator control for O₂% adjustment
- Automatic condensate drains
- Automatic shutdown for high pressure and high temperature
- Compressor pressure is modulation controlled
- Marine grade aluminum frame with stainless steel motor plate
- Soft start
- Membrane system mounted to frame
- Flange for connecting ducting to remove hot air

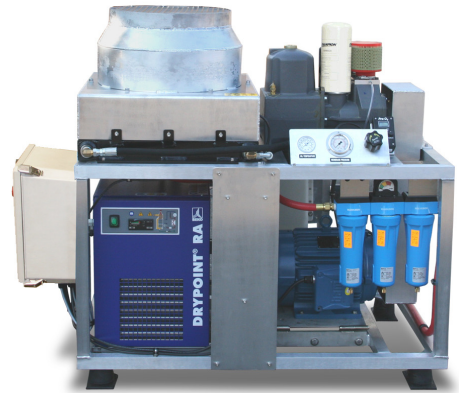


ADVANTAGES

- Cost-effective nitrox system
- Supply LP nitrox containing up to 40% oxygen
- Lower costs, less hassles and hazards compared to O₂ blending
- Systems to fit most HP compressors
- Soft start for reduced amperage draw on start

OPTIONS

- Nitrox manager
- Low / high O₂, CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Remote operation capability
- Frequency drive for easy start
- Sound shield



SPECIFICATIONS

	LP280 10 hp (7.5 kW)	LP300 10 hp (7.5 kW)	LP450 15 hp (11 kW)	LP600 20 hp (15 kW)
208-230 V / E1 / 60 Hz	50 amps SKU: 7060.1ME-EK76-AC	N/A	N/A	N/A
208-230 V / E3 / 60 Hz*	N/A	33 amps SKU: 7060.2ME-EK76-AC	47 amps SKU: 7061.2ME-EK76-AC	63 amps SKU: 7062.2ME-EK76-AC
380-415 V / E3 / 50 Hz	N/A	18 amps SKU: 7060.6ME-EK76-AC	22 amps SKU: 7061.6ME-EK76-AC	29 amps SKU: 7062.6ME-EK76-AC
440-480 V / E3 / 60 Hz	N/A	15 amps SKU: 7060.3ME-EK76-AC	21 amps SKU: 7061.3ME-EK76-AC	29 amps SKU: 7062.3ME-EK76-AC
LP Compressor				
Capacity @ 175 psi	29 CFM (821 L/min)	29 CFM (821 L/min)	46 CFM (1303 L/min)	57 CFM (1614 L/min)
Membrane Input				
Operating Pressure	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)
Supply Air Volume	8-30 SCFM (227-850 L/min)	8-30 SCFM (227-850 L/min)	10-44 SCFM (283-1246 L/min)	13-60 SCFM (368-1699 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				
FAD for 40% O ₂	10 CFM (280 L/min)	11 CFM (311 L/min)	16 CFM (450 L/min)	21 CFM (600 L/min)
FAD for 36% O ₂	12.5 CFM (350 L/min)	14 CFM (396 L/min)	20 CFM (566 L/min)	26.5 CFM (750 L/min)
FAD for 32% O ₂	17 CFM (480 L/min)	19 CFM (538 L/min)	27.5 CFM (780 L/min)	36 CFM (1018 L/min)
Dimensions (L x W x H)	56 x 38 x 46 in (142 x 97 x 117 cm)	56 x 38 x 46 in (142 x 97 x 117 cm)	56 x 38 x 46 in (142 x 97 x 117 cm)	56 x 38 x 46 in (142 x 97 x 117 cm)
Weight	680 lbs (308 kg)	670 lbs (304 kg)	671 lbs (304 kg)	830 lbs (377 kg)

*For information on 50 Hz models, contact your sales representative.

VOYAGER NITROX GENERATOR

FEATURES

- Fully featured for automatic operation
- 10 CFM Nuvair Membrane System
- (2) O₂ Analyzers (permeate and fill O₂ analyzer)
- Electric power (single or three-phase)
- HP compressor pumps air to 4500 psi (310 bar) and nitrox to 3600 psi (250 bar) LP compressor pumps air to 175 psi (12 bar) for membrane supply
- Norgren LP air filtration
- Automatic dial-a-pressure (DAP) shutdown
- Automatic LP / HP condensate drains
- Cabinet temperature gauge
- Push button on / off motor starters
- LP / HP hour meters
- External oil sight gauge, fill and drain
- Cooling fans
- High cabinet temperature shutdown

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 O₂ blending
- Simplest, most cost-effective solution available
- Semi-silenced enclosure to reduce operating noise

OPTIONS

- Trimix
- Low oil shutdown
- HP filtration upgrades
- LP refrigerated air dryer for extended LP filter life
- Carbon monoxide analyzer with alarm
- HP interstage pressure gauges



SPECIFICATIONS

Dimensions (L x W x H)	49 x 38 x 52 in (125 x 97 x 133 cm)
Weight	840 lbs (382 kg)
208-230 V / E1 / 60 Hz*	58 amps 5.5 hp (4 kW) SKU: 7050.1
208-230 V / E3 / 60 Hz	41 amps 7.5 hp (5.5 kW) SKU: 7050.2
440-480 V / E3 / 60 Hz	22 amps 7.5 hp (5.5 kW) SKU: 7050.3
HP Pump	MCH16
LP Compressor	
Capacity @ 175 psi	23 CFM (665 L/min)
Power – Electric	7.5 hp (5.5 kW)
Volume Tank	15 gal (57 L)
Membrane Input	
Operating Pressure	90-170 psi (6-12 bar)
Supply Air Volumes	13-25 SCFM (354-708 L/min)
Optimum Temperature	110° ± 5°F (43° ± 3°C)
Nitrox Compressor	
Output	8.4 CFM, FAD (240 L/min)
Charging Rate**	9.5 SCFM
Fill Rate**	8.5 min
Power – Electric	7.5 hp (5.5 kW)

*Only available with 2 x 5.5 hp motors. Contact a salesperson for information on 50 Hz model. **Based on 80 cu ft cylinder from 500 to 3000 psi.

FEATURES

- Continuous duty compressors
- LP rotary screw compressor with intake modulation
- Produces variable LP air output
- Large LP oil / air cooler with exhaust air fan
- Refrigerated air dryer for extended filter life
- Hankison LP filtration (four 500-hour elements)
- Nuvair membrane system
- Permeate and fill O₂% analyzers
- HP compressor pumps: air to 5000 psi (345 bar) | nitrox to 3600 psi (250 bar)
- 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 shutdown
- High temperature shutdown
- Low oil shutdown
- LP and HP condensate drains

OPTIONS

- Trimix
- CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Nitrox manager
- 90,000 cu ft filtration upgrade or OCA
- Dial-a-pressure shutdown
- High / low O₂% automatic shutdown
- Wheels
- CO₂ scrubber

SPECIFICATIONS

	Voyager II	Voyager III	Voyager IV
Dimensions (L x W x H)	68 x 37 x 70 in (173 x 94 x 178 cm)	68 x 37 x 70 in (173 x 94 x 178 cm)	68 x 37 x 70 in (173 x 94 x 178 cm)
Weight	1425 lbs (646 kg)	1474 lbs (669 kg)	1625 lbs (737 kg)
208-230 V / E1 / 60 Hz	95 amps SKU: 7044.1	N/A	N/A
208-230 V / E3 / 60 Hz*	46 amps SKU: 7045.	79 amps SKU: 7047.2	95 amps SKU: 7049.2
380-415 V / E3 / 50 Hz	23 amps SKU: 7045.6	44.5 amps SKU: 7047.6	50 amps SKU: 7049.6
440-480 V / E3 / 60 Hz	26 amps SKU: 7045.3	39 amps SKU: 7047.3	55 amps SKU: 7049.3
LP Compressor			
Capacity @ 175 psi	29 CFM (821 L/min)	44 CFM (1250 L/min)	59 CFM (1670 L/min)
Pump	EK76	EK76	EK76
Power			
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 (311 L/min)	15 hp (11 kW)
HP Compressor	9.4 CFM (266 L/min)	13.2 CFM (374 L/min)	22.5 CFM (637 L/min)
HP Pump	MCH16-TP	MCH22	MCH36
Stages	3	4	4
HP Filtration	30,000 cu ft	60,000 cu ft	60,000 cu ft

*For information on 50 Hz models, contact your sales representative.

VOYAGER II / III / IV NITROX GENERATOR



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% O₂

NUVAIR EK76-R15 GAS-POWERED SURFACE SUPPLY NITROX SYSTEM

FEATURES

- Rigid 2 in sq aluminum frame & belt guard with forklift slot
- Stainless steel compressor mounting plate
- Vibration mounts below compressor plates
- (2) air after coolers
- LP air filtration: Hankison 3-stage series 20 air filtration on both compressors
 - Auto drains / DP gauges
 - Coalescing 1.0 micron
 - Fine polishing 0.01 micron
 - Oil vapor removal 0.003 ppm
- Supplying Grade D air to membrane
- Hour meter
- Low oil shutdown
- LP dual control head unloaders
- Electric start
- 12 volt battery with box

MEMBRANE SYSTEM

- Two Pro O₂ Analyzers, one with in-line sensor
- Membrane rated up to 14 CFM @ 36% O₂
- Auto thermostatic control
- Air intake filter & static mixing tube
- Synthetic food grade compressor lubricant for nitrox breathing applications
- Mix accurate to within 0.1%

OPTIONS

- Certified lifting eyes
- CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Low / high O₂% shutdown and alarm
- 60 gallon volume tank upgrade
- 250 psi discharge pressure
- Stainless steel tanks



SPECIFICATIONS

SKU: 7069G-EK76-R15

Engine	Honda gas
Engine Power	22.1 hp (16.5 kW)
Max Block Output Pressure	175 psi (12 bar)
EK76	Air 45 CFM @ 175 psi (1274 L/min)
Champion R15	Air 23 CFM @ 175 psi (651 L/min)
Combined Air Produced	Air 68 CFM @ 175 psi (1926 L/min)
Nitrox Produced	36% at 14 CFM @ 175 psi (396 L/min)
Air Tank	(2) 30 gallon steel receivers
Fuel Tank	14 gallons
Lubricant	Nuvair 546 (EK76) / Nuvair 455 (R15)
Lubricant Volume	Capacity 6.5 L
Air Quality	Grade D
Dimensions (L x W x H)	76 x 38 x 66 in (193 x 97 x 168 cm)
Weight	1400 lbs (635 kg)

NUVAIR EK76-Q325D KUBOTA NITROX SYSTEM

The EK76-Q325 LP nitrox production system is a self-contained, portable, low pressure delivery package capable of supplying up to 40% nitrox.

The system utilizes two low pressure compressors that are mounted together with a 37.4 hp Kubota diesel engine and a permeable membrane system in a powder coated steel frame. The system components include: back pressure regulator, low pressure air filtration, gas stream temperature stabilizer (heater), permeable membrane, mixing tube, air intake filter, in-line sensor / O₂ analyzer, compressor intake porting and two low pressure compressors. All of the component assemblies and parts are mounted to facilitate easy setup, operation and transport.



FEATURES

- Powder coated steel frame & belt guard
- Vibration isolation mounts
- Rotary screw compressor with modulation device
- Hour meter / tachometer
- Low oil shutdown (Kubota engine)
- High temperature shutdown (Kubota engine) + EK76 compressor
- (2) 30 gallon ASME volume tank with drain & gauge
- Certified 13 gallon fuel tank

MEMBRANE SYSTEM

- Pro O₂ Analyzer
- Pro O₂ Analyzer with in-line sensor
- Auto thermostat controlled heater
- Back pressure air flow regulator & O₂% control
- Air intake filter & static mixing tube
- Synthetic food grade compressor lubricant
- Mix accurately within 0.1%

SPECIFICATIONS

SKU: 7069DKU-EK76-325	
Max Block Output Pressure	200 psi (14 bar)
Max Block Rated Output	18.6 CFM @ 175 psi (527 L/min @ 12 bar)
Final System Discharge Pressure	155-200 psi (11-14 bar)
Number of Stages (Q325)	2
Number of Cylinders (Q325)	2
Package Free Air Delivered Max	18.6 SCFM @ 40% nitrox
Condensate Drain	Tanks: manual / Filtration: auto
Lubricant	Nuvair 546 (EK76) / Nuvair 455 (Q325)
Lubricant Volume	EK76: 6.5 L (6.9 qt) / Q325: 1.9 L (2 qt.)
Engine	Kubota D1803 diesel 37.4 hp (28 kW), 2700 RPM
Dimensions (L x W x H)	76 x 46 x 70 in (193 x 117 x 178 cm)
Weight	2500 lbs (1134 kg)

OPTIONS

- Certified lifting eyes
- CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Low / high O₂% shutdown and alarm
- 60 gallon volume tank upgrade
- 250 psi discharge pressure

NUVAIR EK76-Q325 ELECTRIC NITROX SYSTEM

The Nuvair EK76>Q325 Electric System is a complete state-of-the-art LP/LP nitrox generating system that can be used independently to provide LP air or combined for nitrox production. It uses the latest membrane technology to produce a constant flow of nitrox from 22% to 40%.



FEATURES

- Rigid 2 in sq aluminum frame & belt guard
- Stainless steel ¼ in compressor mounting plate
- Vibration isolation mounts below compressor plate
- Rotary screw compressor with modulation device
- High temperature shutdown on rotary
- Produces nitrox 40% at 18.6 CFM @ 175 psi
- Refrigerated dryer

MEMBRANE SYSTEM

- Pro O₂ Analyzer
- Pro O₂ Remote Analyzer with in-line sensor
- Membrane rated up to 20 CFM @ 40% O₂ (566 L/min)
- Automatic thermostatic controlled heater
- Back pressure air flow regulator & O₂% control
- Air intake filter & static mixing tube
- Synthetic food grade compressor lubricant for nitrox breathing air applications
- Mix accurate to within 0.1%

SPECIFICATIONS

	SKU: 7069QE
Max Block Output Pressure	200 psi (14 bar)
Max Block Rated Output	18.6 CFM @ 175 psi (527 L/min)
Final System Discharge Pressure	155-200 psi (11-14 bar)
Number of Stages (Q325)	2
Number of Cylinders (Q325)	2
Package Free Air Delivered Max	18.6 CFM @ 40% nitrox
Condensate Drain	Tanks: manual / filtration: auto
Lubricant	Nuvair 546 (EK76) / Nuvair 455 (Q325)
Lubricant Volume	EK76: 6.5 L (6.9 qt) / Q325: 1.9 L (2 qt.)
Motor	30 hp WEG
Dimensions (L x W x H)	76 x 46 x 70 in (193 x 117 x 178 cm)
Weight	1460 lbs (663 kg)

OPTIONS

- 60 gallon volume tank
- Low / high O₂% shutdown and alarm
- CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Produce LP air at 77 CFM @ 175 psi (2180 L/min @ 12 bar)
- Stainless steel volume tank

NUVAIR LP-LP NITROX GENERATOR

FEATURES

- Rigid 2 in sq aluminum frame & belt guard
- ¼ in stainless steel compressor mounting plate
- Vibration mounts below compressor plate & frame
- Two (2) air aftercoolers
- LP air filtration: Norgren Series 74
- Auto drains / DP gauges
- Coalescing 1.0 micron
- Oil vapor removal 0.003 ppm
- Hour meter
- LP dual control head unloaders
- Electric start
- 12 volt battery with box
- 20 amp charging system
- 600 watt inverter

MEMBRANE SYSTEM

- Two (2) Pro O₂ Analyzers, one with inline sensor
- Membrane rated up to 12 CFM @ 36% O₂
- Auto thermostatic control 110/220 volt heater
- Air intake filter and static mixing tube
- Synthetic food-grade compressor lubricant
- Mix accurate to within 0.1%

OPTIONS

- 27 hp Deutz diesel or electric 15 hp three-phase motor
- One (1) 60 gallon volume tank
- High temperature shutdown or alarm
- Low / high O₂% shutdown or alarm
- CO, CO₂ or H₂S Alarm Analyzer with shutdown capability



SPECIFICATIONS

SKU: 7068	
Engine	Honda gas
Engine Power	22.1 hp (16.5 kW)
Max Operating Pressure	150 psi (10 bar)
Nitrox Produced	36% at 12 CFM @ 150 psi (340 L/min)
Air Tank	30 gallon steel volume tank
Fuel Tank	6.5 gallon
Air Quality	Grade D
Lubricant	Nuvair 455 (EK76) / Nuvair 455 (Bamax / R-15)
Lubricant Volume	EK76: 6.5 L (6.9 qt) Bamax: 1.9 L (2 qt.)
Dimensions (L x W x H)	56 x 23 x 57 in (135 x 58 x 145 cm)
Weight	624 lbs (283 kg)

QUINCY 390 / NUVAIR 26 DIESEL LP / HP NITROX SYSTEM

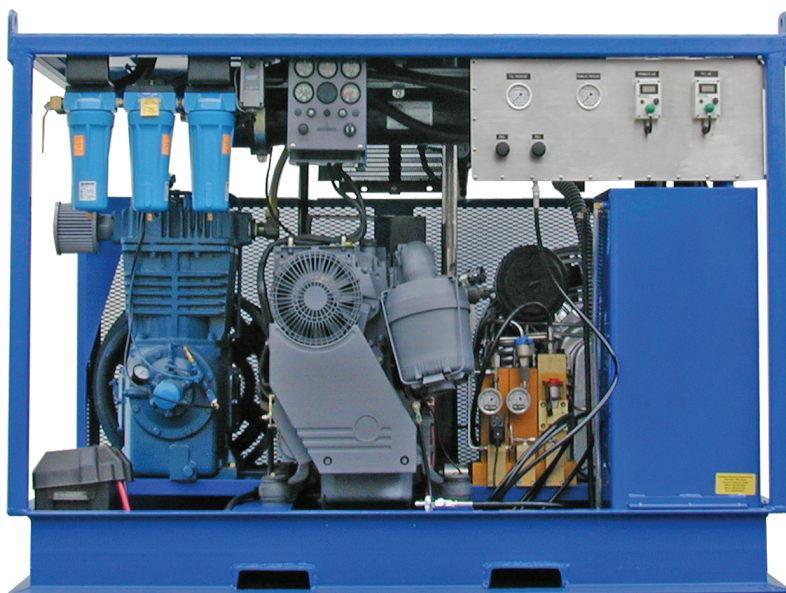
Complete state-of-the-art LP / HP Nitrox Generating System. Diesel compressors can be used independently to provide HP or LP air, or together to provide HP nitrox. The system has a constant flow of nitrox from 22% to 40% at 26.4 SCFM (748 L/min).

FEATURES

- Coltri high pressure MCH36, four-stage, four cylinder, air cooled, oil pressure lubricated compressor
- Interstage pressure gauges
- Automatic shutdown
- HP auto condensate drains
- 60,000 cu ft 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 0.01 micron
 - Oil vapor removal 0.003 ppm
- Supplying LP Grade D and HP grade E air / nitrox
- LP back pressure regulator for O₂% adjustment
- 60-gallon air tank
- 50-gallon fuel tank
- Deutz diesel or Kubota 54 hp @ 2800 RPM
- Twin disc PTO model C106SP5
- LP auto condensate drains
- 2 kW inverter
- Heavy duty frame with vibration isolated inside frame
- Stainless steel fill panel
- Powder coated frame

OPTIONS

- Quincy 370 with 21 SCFM HP compressor
- EK76 rotary screw compressor (no volume tank required)
- Canvas cover
- Refrigerated dryer and separator
- CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Moisture Alarm Analyzer with shutdown capability
- Certified lifting eyes



MEMBRANE SYSTEM

- (2) Pro O₂ Analyzers, one with in-line sensor
- Air intake filter and static mixing tube
- Auto thermostatic control 220 V heater
- Synthetic food grade compressor lubricant for nitrox breathing air applications

SPECIFICATIONS

SKU: 7058DKU	
Dimensions (L x W x H)	86 x 54 x 60 in (218 x 137 x 152 cm)
Weight	2900 lbs (1315 kg)
Compressors	
LP Compressor	Capacity @ 175 psi 69 CFM (1954 L/min)
HP Compressor	Capacity @ 3600 psi 24.8 SCFM (702 L/min)
Volume Tank Capacity	60 gal (227 L)

QUINCY 390 / NUVAIR 36 ELECTRIC LP / HP NITROX SYSTEM

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. Using the latest membrane technology, no volume tank is required. The system produces a constant flow of nitrox from 22% to 40% at 26.4 SCFM (748 L/min).

FEATURES

- Coltri high pressure MCH36, four-stage, four cylinder, air cooled, oil pressure lubricated compressor
- HP compressor with 20 hp motor
 - Nitrox up to 3600 psi (250 bar) @ 27 SCFM (764 L/min)
 - Air up to 5000 psi (345 bar) @ 27 SCFM (764 L/min)
- 60,000 cu ft of HP filtration Grade E
- HP auto condensate drains
- Quincy 390, two-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 0.01 micron
 - Oil vapor removal 0.003 ppm
- LP back pressure regulator for O₂% adjustment
- Air tank-60 gallon
- Supplying Grade D air
- LP compressor: 20 hp, 69 CFM @ 175 psi (1954 L/min @ 12 bar)
- HP and LP low oil, high temp and automatic shutdown
- LP auto condensate drains
- Heavy duty frame with vibration isolated inside frame
- Stainless steel fill panel
- Base pan
- Lifting eyes and forklift slots

OPTIONS

- Quincy 370 with 21 SCFM HP compressor
- EK-76 rotary screw compressor (no volume tank required)
- Canvas cover
- Refrigerated dryer and separator
- CO, CO₂ or H₂S Alarm Analyzer with shutdown capability
- Moisture Alarm Analyzer with shutdown capability
- Pro 4 Warn Analyzer



MEMBRANE SYSTEM

- Two Pro O₂ Analyzers, one with in-line sensor
- Air intake filter and static mixing tube
- Auto thermostatic control
- Synthetic food grade compressor lubricant for nitrox breathing air applications

SPECIFICATIONS

SKU: 7058	
Dimensions (L x W x H)	80 x 48 x 57 in (203 x 122 x 145 cm)
Weight	2600 lbs (1179 kg)
208-230 V / E3 / 50 Hz	108 amps SKU: 7058.5
208-230 V / E3 / 60 Hz	108 amps SKU: 7058.2
380-415 V / E3 / 50 Hz	60 amps SKU: 7058.6
440-480 V / E3 / 60 Hz	50 amps SKU: 7058.3
Compressor	
LP Compressor	Capacity @ 175 psi 69 CFM (1954 L/min)
HP Compressor	Capacity @ 3600 psi 24.8 SCFM (702 L/min)
Volume Tank Capacity	60 gal (227 L)

NUVAIR LP AIR COMPRESSORS

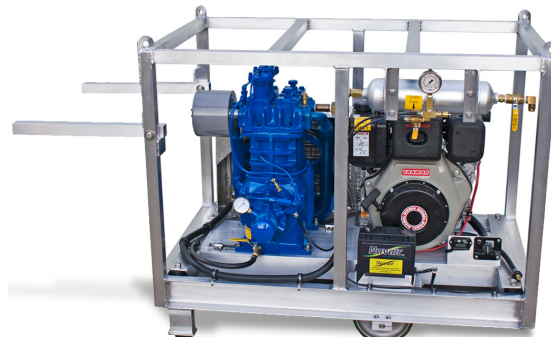
Champion | Quincy | CompAir | Bamax
Gas | Electric | Diesel

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.

- Yanmar, Kohler or Kubota diesel motors, Honda gas, or WEG electric
- Two-stage reciprocating compressors to 250 psi
- Rotary screw compressors to 188 psi
- Head unloaders or Load Genie
- Hankison filtration to 0.003 ppm oil vapor
- Rigid square aluminum, steel or stainless frames
- Vibration mounts
- 7 CFM to 105 CFM
- Forklift slots and / or lifting eyes
- Low pressure regulator for down stream pressure
- Automatic condensate drains
- Stainless steel volume tank
- Moisture, H₂S, CO, CO₂ and / or O₂ Alarm Analyzers
- Nitrox delivery options
- Portable and lightweight options available
- Wheels
- Outlet manifold
- Air cooled with aftercooler
- Steel or stainless ASME rated volur
- Optional water cooling



Quincy 5120 Kubota Diesel
SKU: Q-5120-K



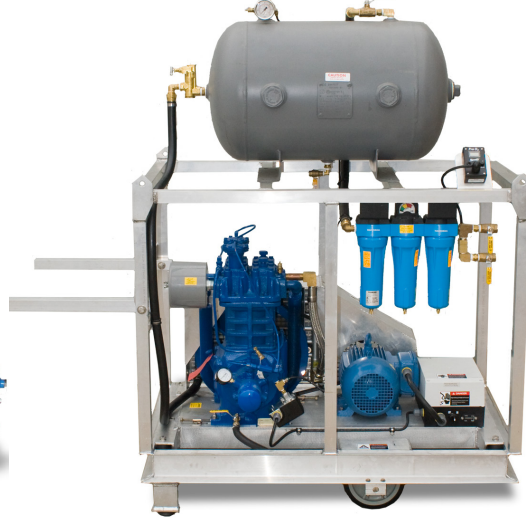
Quincy 325-Yanmar Diesel
SKU: Q-325DY



Champion R15-Honda Gas
SKU: LP-R15HL



Bamax Nomad-Gas
SKU: LP-B23-G



Quincy 325-Electric
SKU: Q-325E

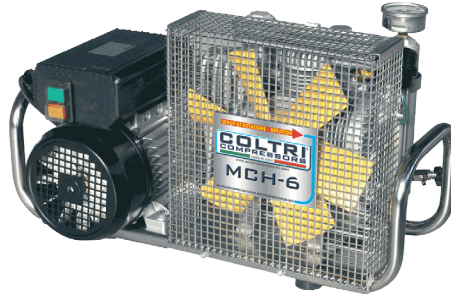
COLTRI / NUVAIR MCH6 PORTABLE HP COMPRESSORS

FEATURES

- Excellent portability
- 4500 psi (310 bar) max pressure
- Grade E breathing air filtration
- Tach hour meter standard on gas unit

OPTIONS

- Pressure switch
- Automatic condensate drains
- Hour meter
- Stainless steel frame
- Visual CO / moisture indicator
- Inverter drive for use with smaller generators



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

SPECIFICATIONS

	MCH6/3	MCH6/3.5E	MCH6/3.5G
Fill Time*	Approx 23 min	Approx 19 min	Approx 19 min
Charging Rate*	3.4 SCFM (80 L/min)	4.2 SCFM (100 L/min)	4.2 SCFM (100 L/min)
CFM FAD	2.8 CFM (80 L/min)	3.5 CFM (100 L/min)	3.5 CFM (100 L/min)
Motor	Single-phase electric	Three-phase electric	Honda gas 5.5 hp (4.1 kW) SKU: 8013
115 V / E1 / 60 Hz**	29 amps 3 hp (2.2 kW) SKU: 8015	N/A	N/A
208-230 V / E1 / 60 Hz**	17 amps 3 hp (2.2 kW) SKU: 8014.1	N/A	N/A
208-230 V / E3 / 60 Hz**	N/A	12 amps 4 hp (3 kW) SKU: 8016.2	N/A
380-415 V / E3 / 50 Hz	N/A	6.7 amps 4 hp (3 kW) SKU: 8016.3	N/A
440-480 V / E3 / 60 Hz**	N/A	6.4 amps 4 hp (3 kW) SKU: 8016.3	N/A
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 (L x W x H)	27 x 15 x 16 in (69 x 38 x 41 cm)	26 x 15 x 15 in (66 x 38 x 38 cm)	31 x 27 x 15 in (79 x 69 x 38 cm)
Weight	90 lbs (41 kg)	88 lbs (40 kg)	84 lbs (38 kg)
Lubrication	Splash lubrication, capacity 12 oz		
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021		

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

COLTRI / NUVAIR COMPACT PORTABLE HP COMPRESSORS

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 (310 bar) max pressure
- Grade E breathing air filtration
- Hour meter standard on gas unit
- Protective frame

OPTIONS

- Pressure switch
- Automatic condensate drains
- Hour meter
- Stainless steel frame
- Visual CO / moisture indicator
- Inverter drive for use with small generators



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

SPECIFICATIONS

	MCH6/3E	MCH6/3.5E	MCH6/3.5G
Fill Time*	Approx 23 min	Approx 19 min	Approx 19 min
Charging Rate*	3.4 SCFM (96 L/min)	4.2 SCFM (119 L/min)	4.2 SCFM (119 L/min)
CFM FAD	2.8 CFM (96 L/min)	3.5 CFM (100 L/min)	3.5 CFM (100 L/min)
Motor	Single phase electric	Three-phase Electric	Honda Gas SKU: 8013-C
115 V / E1 / 60 Hz	28 amps SKU: 8015-C	N/A	N/A
208-230 V / E1 / 60 Hz**	14 amps SKU: 8014.1-C	N/A	N/A
208-230 V / E3 / 60 Hz	N/A	11 amps SKU: 8016.2-C**	N/A
Driven By	3 hp (2.2 kW)	4 hp (3 kW)	6.5 hp (4.85 kW)
Max Operating Pressure	4500 psi (310 bar)	4500 psi (310 bar)	4500 psi (310 bar)
RPM	2240	2800	2800
Number of Stages	4	4	4
Number of Fill Hoses	1	1	1
Condensate Drain	Manual	Manual	Manual
Sound Level @ 3 Meters	82 dB	83 dB	87 dB
Dimensions (L x W x H)	29 x 14.5 x 19 in (74 x 37 x 48 cm)	29 x 14.5 x 19 in (74 x 37 x 48 cm)	29 x 14.5 x 19 in (74 x 37 x 48 cm)
Weight	126 lbs (57 kg)	126 lbs (57 kg)	121 lbs (55 kg)
Lubrication	Splash lubrication, capacity 12 oz		
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021		

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

COLTRI / NUVAIR STANDARD ELECTRIC COMPRESSORS

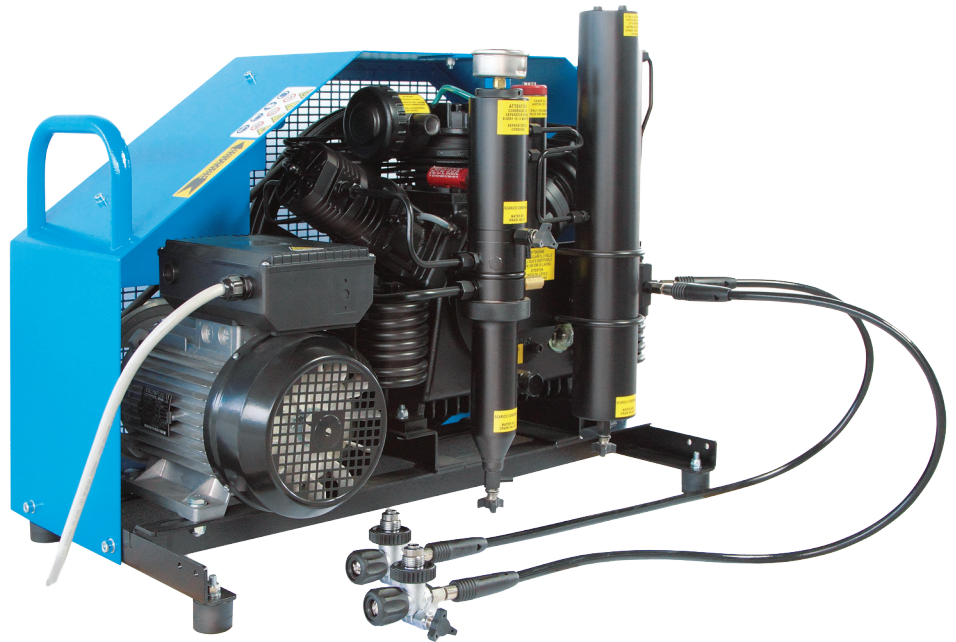
The Nuvair Standard Electric uses a pumping unit that is made from top quality materials; connecting rods from aluminum alloy, stainless steel intercoolers and aftercoolers that are more than four meters in length, and cylinders of special cast iron. The electric motor uses an aluminum housing to keep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

FEATURES

- 5000 psi (345 bar) max pressure
- Grade E filtration
- 2 fill whips
- Electric
- Stainless steel intercoolers

OPTIONS

- Motor starter
- Automatic condensate drains
- Pressure switch
- Hour meter
- High temp shutdown
- Low oil shutdown
- Interstage pressure gauges
- Stainless frame
- Visual CO / moisture indicator



SPECIFICATIONS

	MCH13	MCH16
Fill Time*	Approx 11 min	Approx 9 min
Charging Rate*	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)
CFM FAD	7 CFM (200 L/min)	9.4 CFM (266 L/min)
Motor	Single or three-phase electric	Three-phase
208-230 V / E1 / 50 or 60 Hz**	26 amps SKU: 8020.1	N/A
208-230 V / E3 / 50 or 60 Hz**	17 amps SKU: 8019.2	22 amps SKU: 8022.2
400 V / E3 / 50 Hz	10 amps SKU: 8019.6	15 amps SKU: 8022.6
440 V / E3 / 60 Hz	7 amps SKU: 8019.3	13 amps SKU: 8022.6
Driven By	5.5 hp (4 kW)	7.5 hp (5.5 kW)
Max Operating Pressure	5000 psi (345 bar)	5000 psi (345 bar)
RPM	1200	1450
Number of Stages	3	3
Number of Fill Hoses	2	2
Condensate Drain	Manual	Manual
Sound Level @ 3 Meters	81 dB	82 dB
Dimensions (L x W x H)	34 x 18 x 25 in (86 x 45 x 64 cm)	34 x 18 x 25 in (86 x 45 x 64 cm)
Weight	218 lbs (99 kg)	218 lbs (99 kg)
Lubrication	Splash lubrication, capacity 1.8 L	
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021	

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

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. Onboard grade E air purification insures breathing air quality standards. A wide variety of customized options to meet individual needs and are listed below.

FEATURED

- 5000 psi (345 psi) max pressure
- Grade E filtration
- (2) fill whips
- Electric motor, Honda gas or diesel engine
- Stainless steel intercoolers
- 4 lifting handles
- All important parts are protected inside frame
- Superior vibration isolation
- Powder coated marine grade aluminum frame

OPTIONS

- Motor starter / electric start
- Automatic condensate drains
- Pressure switch
- Hour meter
- High temp shutdown
- Upgraded filtration
- Stainless frame
- Lifting eyes
- Low oil shutdown
- Tropical block w/ oil pump
- Visual CO / moisture indicator
- Interstage pressure gauges



pictured with multiple options

SPECIFICATIONS

	MCH13	MCH16
Fill Time*	Approx 11 min	Approx 9 min
Charging Rate*	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)
CFM FAD	7 CFM (200 L/min)	9.4 CFM (266 L/min)
208-230 V / E1 / 60 Hz**	23 amps SKU: 8040.1	30.3 amps SKU: 8037.1
208-230 V / E3 / 60 Hz**	13.1 amps SKU: 8040.2	19.4 amps SKU: 8037.2
380-415 V / E3 / 50 Hz	8 amps SKU: 8040.6	11 amps SKU: 8037.6
440-480 V / E3 / 60 Hz	6 amps SKU: 8040.3	9 amps SKU: 8037.3
Electric Motor Size	5.5 hp (4 kW)	7.5 hp (5.5 kW)
Honda Gas	8.5 hp (6.3 kW) SKU: 8039	11.7 hp (8.7 kW) SKU: 8038
Yanmar Diesel	N/A	9.3 hp (6.8 kW) SKU: 8038-DY
Max Operating Pressure	5000 psi (345 bar)	5000 psi (345 bar)
RPM	1200	1450
Number of Stages	3	3
Number of Fill Hoses	2	2
Condensate Drain	Manual	Manual
Sound Level @ 3 Meters	81-96 dB	82-96 dB
Dimensions (L x W x H)	45.5 x 22.25 x 25.75 in (116 x 57 x 65 cm)	45.5 x 22.25 x 25.75 in (116 x 57 x 65 cm)
Weight	320-421 lbs (145-191 kg)	320-421 lbs (145-191 kg)
Lubrication	Splash lubrication, capacity 1.8 L	
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021	

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

COLTRI / NUVAIR TECH 250 HP COMPRESSOR

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 (345 bar) max pressure
- Grade E filtration
- (2) fill whips
- Electric motor or Honda gas engine
- Stainless steel intercoolers
- 4 lifting handles
- All important parts are protected inside frame
- Superior vibration isolation
- Gauge panel
- Removable air intake snorkel



OPTIONS

- Automatic condensate drains
- Motor starter / electric start
- Pressure switch
- Hour meter
- High temp shutdown
- Low oil shutdown
- Interstage pressure gauges
- Stainless frame
- Visual CO / moisture indicator
- Upgrade filtration

SPECIFICATIONS

MCH16 / 250	
Fill Time*	Approx 9 min
Charging Rate*	11.3 SCFM (320 L/min)
CFM FAD	9.4 CFM (266 L/min)
Motor	Single and Three-phase
208-230 V / E1 / 60 Hz	30.3 amps SKU: 8027.1
208-230 V / E3 / 60 Hz	19.4 amps SKU: 8027.2
380-415 V / E3 / 50 Hz	10.5 amps SKU: 8027.6
Driven By	7.5 hp (5.5 kW)
Honda	11.7 hp (8.7 kW) SKU: 8027-H-EL
Yanmar Diesel (Electric Start)	10 hp (7.5 kW) SKU: 8027-DY-EL
Kohler Diesel (Electric Start)	10 hp (7.5 kW) SKU: 8027-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 (L x W x H)	44 x 23 x 31 in (112 x 58 x 58 cm)
Weight	320-421 lbs (145-195 kg)
Lubrication	Splash lubrication, capacity 1.8 L
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021

*Based on 80 cu ft cylinder from 500 to 3000 psi.

COLTRI / NUVAIR COMPACT EVO HP COMPRESSOR

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 offered as an EVO model with interstage pressure gauges, high temperature and low oil shutdown included.

FEATURES

- Motor starter
- Automatic condensate drains
- Dial-a-pressure switch
- Hour meter
- Semi-soundproofed cabinet
- External oil sight gauge
- Grade E filtration
- Automatic stop
- Emergency stop
- Interstage pressure gauges
- High temp shutdown
- Low oil shutdown



OPTIONS

- Visual CO / moisture indicator
- CO Analyzer
- Moisture Analyzer
- Filtration upgrade
- 6000 psi upgrade
- Pressure lubricated block for tropical locations available

SPECIFICATIONS

	MCH13	MCH16
Fill Time*	Approx 11 min	Approx 9 min
Charging Rate*	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)
CFM FAD	7 CFM (200 L/min)	9.4 CFM (266 L/min)
Motor	Single or three-phase electric	Single or three-phase electric
208-230 V / E1 / 60 Hz**	25.2 amps 5.5 hp (4 kW) SKU: 8031.1	28.5 amps 7.5 hp (5.5 kW) SKU: 8032.1 / 8033.1
208-230 V / E3 / 60 Hz**	12.89 amps 5.5 hp (4 kW) SKU: 8031.2	21.8 amps 7.5 hp (5.5 kW) SKU: 8032.2 / 8033.2
380-415 V / E3 / 50 Hz	7.61 amps 5.5 hp (4 kW) SKU: 8031.6	12.6 amps 7.5 hp (5.5 kW) SKU: 8032.6 / 8033.6
440-480 V / E3 / 60 Hz	7.61 amps 5.5 hp (4 kW) SKU: 8031.3	12.6 amps 7.5 hp (5.5 kW) SKU: 8032.3 / 8033.3
Max Operating Pressure	5000 psi (345 bar)	5000 psi (345 bar)
RPM	1300	1450
Number of Stages	3	3
Number of Fill Hoses	2	2
Condensate Drain	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic
Sound Level @ 3 Meters	79 dB	81 dB
Dimensions (L x W x H)***	41.5 x 27.75 x 31.75 in (105 x 71 x 80.1 cm)	41.5 x 27.75 x 31.75 in (105 x 71 x 80.1 cm)
Weight	450 lbs (204 kg)	450 lbs (204 kg)
Lubrication	Splash lubrication, capacity 1.8 L	
Air Quality	DIN 3188 – CGA Grade A – NFPA 1500 – EN12021	

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative. ***Single phase enclosure 33 in x 42 in x 28 in (84 x 105 x 70 cm).

COLTRI / NUVAIR COMPACT MCH26 / 32 HP COMPRESSOR

This 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. The Compact can be used with our LP300 to produce 32% nitrox @ 18 CFM (510 L/min) using both compressors, or up to 40% nitrox at 9 CFM (255 L/min) using one compressor.

FEATURES

- Motor starter
- Automatic condensate drains
- Dial-a-pressure switch
- Hour meter
- Semi-soundproofed cabinet
- External oil sight gauge
- Grade E filtration
- Automatic stop

OPTIONS

- Visual CO / moisture indicator
- Additional filtration



SPECIFICATIONS

	MCH26	MCH32
Fill Time*	Approx 5.5 min	Approx 4.5 min
Charging Rate*	16.8 SCFM (476 L/min)	22.6 SCFM (640 L/min)
CFM FAD	14 CFM (400 L/min)	18.8 CFM (532 L/min)
Motor	Single or three-phase electric	Three-phase electric
208-230 V / E1 / 60 Hz	25 amps SKU: 8036.1-13	N/A
208-230 V / E3 / 60 Hz**	14 amps SKU: 8036.2-13	20 amps SKU: 8036.2
380-415 V / E3 / 50 Hz	17 amps SKU: 8036.6-13	27 amps SKU: 8036.6
440-480 V / E3 / 60 Hz	7 amps SKU: 8036.3-13	10 amps SKU: 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 (L x W x H)	35 x 34 x 53 in (89 x 85 x 133 cm)	35 x 34 x 53 in (89 x 85 x 133 cm)
Weight	629 lbs (286 kg)	673 lbs (306 kg)
Lubrication	Splash lubrication, capacity (2) 1.8 L	
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021	

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

COLTRI / NUVAIR MINI SILENT HP COMPRESSOR



The Mini Silent series uses a very compact, soundproofed 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 its small footprint, this compressor is great for use in boats and shops.

FEATURES

- Motor starter
- Automatic condensate drains
- Dial-a-pressure switch
- Hour meter
- Soundproofed cabinet
- External oil sight gauge
- Grade E filtration
- Automatic stop

OPTIONS

- Interstage pressure gauges
- High temp shutdown
- Low oil shutdown
- Visual CO / moisture indicator
- Additional filtration

SPECIFICATIONS

	MCH13	MCH16
Fill Time*	Approx 11 min	Approx 9 min
Charging Rate*	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)
CFM FAD	7 CFM (200 L/min)	9.4 CFM (266 L/min)
Motor	Three-phase electric	Three-phase electric
208-230 V / E3 / 50 Hz	14 amps 5.5 hp (4 kW) SKU: 8034.5-13	22 amps 7.5 hp (5.5 kW) SKU: 8034.5
208-230 V / E3 / 60 Hz	14 amps 5.5 hp (4 kW) SKU: 8034.2-13	22 amps 7.5 hp (5.5 kW) SKU: 8034.2
380-415 V / E3 / 50 Hz	8 amps 5.5 hp (4 kW) SKU: 8034.6-13	12.6 amps 7.5 hp (5.5 kW) SKU: 8034.6
440-480 V / E3 / 60 Hz	8 amps 5.5 hp (4 kW) SKU: 8034.3-13	12.6 amps 7.5 hp (5.5 kW) SKU: 8034.3
Max Operating Pressure	5000 psi (345 bar)	5000 psi (345 bar)
RPM	1370	1450
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 (L x W x H)	29.5 x 28.3 x 41.7 in (75 x 72 x 106 cm)	29.5 x 28.3 x 41.7 in (75 x 72 x 106 cm)
Weight	356 lbs (161 kg)	356 lbs (161 kg)
Lubrication	Splash lubrication, capacity 1.8 L	
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021	

*Based on 80 cu ft cylinder from 500 to 3000 psi.

COLTRI / NUVAIR SUPER SILENT EVO HP COMPRESSOR



The Super Silent EVO is built in a resiliently soundproofed cabinet. From just a few feet away, only a sound level below 70 dB can be heard. 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 shutdown
- Low oil shutdown with external sight gauge
- Soundproofed cabinet
- External oil sight gauge
- Grade E filtration
- Automatic stop

OPTIONS

- Visual CO / moisture indicator
- Additional filtration

SPECIFICATIONS

	MCH13	MCH16
Fill Time*	Approx 11 min	Approx 9 min
Charging Rate*	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)
CFM FAD	7 CFM (200 L/min)	9.4 CFM (266 L/min)
Motor	Single or three-phase electric	Three-phase electric
208-230 V / E1 / 60 Hz	25 amps SKU: 8035.1-13	N/A
208-230 V / E3 / 60 Hz**	17 amps SKU: 8035.2-13	22 amps SKU: 8035.2
380-415 V / E3 / 50 Hz	9 amps SKU: 8035.6-13	13 amps SKU: 8035.6
440-480 V / E3 / 60 Hz	8 amps SKU: 8035.3-13	13 amps SKU: 8035.3
Driven By	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 (L x W x H)	35 x 33.5 x 52.5 in (90 x 85 x 133 cm)	35 x 33.5 x 52.5 in (90 x 85 x 133 cm)
Weight	466 lbs (211 kg)	488 lbs (221 kg)
Lubrication	Pressure lubrication, capacity 1.8 L	
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021	

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

COLTRI / NUVAIR MCH22 / 30 / 36 OPEN HP COMPRESSOR

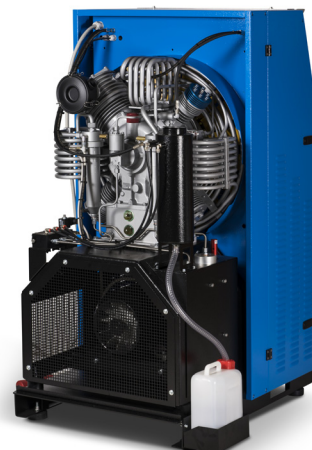
The Open Vertical MCH22, MCH30 and MCH36 compressors are designed for high use in hot, humid conditions and are rated for continuous duty use up to 6000 psi (414 bar). Equipped with the MCH22, MCH30 or MCH36 four-stage compressor block with a charging rate up to 27 SCFM* (764 L/min). Purchase, maintenance and operation costs are significantly lower than similar sized compressors in the marketplace.

FEATURES

- Open configuration for easy access and cool running
- Dial-a-pressure auto shutdown
- Soft start (Star / Delta) electric switchboard with hour meter and emergency stop button
- Automatic condensate drains and auto stop
- Phase controller that prohibits reverse rotation
- Oil level switch / auto shutoff
- Cabinet temperature thermostat / auto shutoff
- Stage and lubricant oil pressure gauges
- 60,000 cu ft dual filtration (Grade E)

OPTIONS

- Visual CO / moisture indicator
- CO, CO₂ or H₂S Alarm Analyzer
- Additional filtration
- Moisture Analyzer
- Refrigerated air dryer



SPECIFICATIONS

	MCH22	MCH30	MCH36
Fill Time*	Approx 5 min	Approx 4 min	Approx 3 min
Charging Rate*	15.8 SCFM (447 L/min)	20.4 SCFM (577 L/min)	27 SCFM (764 L/min)
CFM FAD	13.2 CFM (374 L/min)	17 CFM (481 L/min)	22.5 CFM (637 L/min)
Motor	Single and three-phase	Three-phase	Three-phase
208-230 V / E1 / 60 Hz	46 amps 10 hp (7.5 kW) SKU: 8051.1	N/A	N/A
208-230 V / E3 / 60 Hz**	28 amps 10 hp (7.5 kW) SKU: 8051.2	31 amps 15 hp (11 kW) SKU: 8042.2	48 amps 20 hp (15 kW) SKU: 8044.2
380-415 V / E3 / 50 Hz	17 amps 10 hp (7.5 kW) SKU: 8051.6	18 amps 15 hp (11 kW) SKU: 8042.6	29 amps 20 hp (15 kW) SKU: 8044.6
440-480 V / E3 / 60 Hz	17 amps 10 hp (7.5 kW) SKU: 8051.3	16 amps 15 hp (11 kW) SKU: 8042.3	25 amps 20 hp (15 kW) SKU: 8044.3
Working Pressure	6000 psi (414 bar)	6000 psi (414 bar)	6000 psi (414 bar)
RPM	880	1100	1300
Number of Stages	4	4	4
Number of Fill Hoses	4	4	4
Condensate Drain	Automatic	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic	Automatic
Sound Level @ 3 Meters	76 dB	76 dB	76 dB
Dimensions (L x W x H)	39 x 31 x 61 in (99 x 78 x 155 cm)	39 x 31 x 61 in (99 x 78 x 155 cm)	39 x 31 x 61 in (99 x 78 x 155 cm)
Weight	913 lbs (414 kg)	915 lbs (415 kg)	950 lbs (431 kg)
Lubrication	Pressure Lubrication, capacity 4 L		
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021		

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

COLTRI / NUVAIR MCH22 / 30 / 36

ENCLOSED AND SILENCED HP COMPRESSOR

High volume facilities where sound may be an issue should look at our Enclosed & Silenced 27 SCFM* (764 L/min) charging rate compressor, rated for continuous duty at up to 6000 psi (414 bar). Unsurpassed in quality, reliability and price, the Enclosed and Silenced package is designed for high use in work areas where noise can not be tolerated.

FEATURES

- Enclosed configuration for reduced sound levels
- Dial-a-pressure auto shutdown
- Soft start (Star / Delta) electric switchboard with hour meter and emergency stop button
- Automatic condensate drains and auto stop
- Phase controller that prohibits reverse rotation
- Oil level switch / auto shutoff
- Cabinet temperature thermostat / auto shutoff
- Stage and lubricant oil pressure gauges
- 60,000 cu ft dual filtration (Grade E)

OPTIONS

- Visual CO / moisture indicator
- CO, CO₂ or H₂S Alarm Analyzer
- Additional filtration
- Moisture Analyzer
- Refrigerated air dryer



SPECIFICATIONS

	MCH22	MCH30	MCH36
Fill Time*	Approx 5 min	Approx 4 min	Approx 3 min
Charging Rate*	15.8 SCFM (447 L/min)	20.4 SCFM (577 L/min)	27 SCFM (764 L/min)
CFM FAD	13.2 CFM (374 L/min)	17 CFM (481 L/min)	22.5 CFM (637 L/min)
Motor	Single and Three-phase	Three-phase	Three-phase
208-230 V / E1 / 60 Hz	46 amps 10 hp (7.5 kW) SKU: 8052.1	N/A	N/A
208-230 V / E3 / 60 Hz**	28 amps 10 hp (7.5 kW) SKU: 8052.2	31 amps 15 hp (11 kW) SKU: 8043.2	48 amps 20 hp (15 kW) SKU: 8045.2
380-415 V / E3 / 50 Hz	17 amps 10 hp (7.5 kW) SKU: 8052.6	18 amps 15 hp (11 kW) SKU: 8043.6	29 amps 20 hp (15 kW) SKU: 8045.6
440-480 V / E3 / 60 Hz	17 amps 10 hp (7.5 kW) SKU: 8052.3	16 amps 15 hp (11 kW) SKU: 8043.3	25 amps 20 hp (15 kW) SKU: 8045.3
Working Pressure	6000 psi (414 bar)	6000 psi (414 bar)	6000 psi (414 bar)
RPM	880	1100	1300
Number of Stages	4	4	4
Number of Fill Hoses	4	4	4
Condensate Drain	Automatic	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic	Automatic
Sound Level @ 3 Meters	70 dB	70 dB	70 dB
Dimensions (L x W x H)	49 x 31.9 x 69 in (125 x 81 x 175 cm)	49 x 31.9 x 69 in (125 x 81 x 175 cm)	49 x 31.9 x 69 in (125 x 81 x 175 cm)
Weight	1108 lbs (503 kg)	1126 lbs (511 kg)	1160 lbs (526 kg)
Lubrication	Pressure lubrication, capacity 4 L		
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021		

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

COLTRI / NUVAIR MCH22 / 30 / 36 ELECTRIC HP COMPRESSOR

After considerable research, development and testing, Nuvair is proud to release a 15.8-27 SCFM* (447-764 L/min) charging rate compressor, rated for continuous duty. The Nuvair MCH22 / 30 / 36 is unsurpassed in quality, reliability and price. The frame is powder coated aluminum and designed to be compact in size; all equipment is inset.

FEATURES

- 6000 psi (414 bar)
- 4 cylinder, 4 stage, air cooled
- Hour meter
- Interstage pressure gauges
- 3 large condensate separators
- Large SS interstage cooling tubes
- Pressure lubricated oil pump with filter, oil sight gauge and oil pressure gauge
- Automatic condensate drains
- NEMA 4X enclosed electric box
- Triple auto drain MCH22-36 vertical open 110 V control
- Low oil shutdown switch
- High temp switch set at 350°F
- Pressure shutdown switch

OPTIONS

- Stainless steel package
- Dial-a-pressure shutdown
- Electronic moisture monitor
- Upgraded filtration
- Remote fill panel
- Frame mounted with storage tanks below for paintball use
- Digital CO monitor
- Visual CO / moisture indicator



SPECIFICATIONS

	MCH22	MCH30	MCH36
Fill Time*	Approx 5 min	Approx 4 min	Approx 3 min
Charging Rate*	15.8 SCFM (447 L/min)	20.4 SCFM (577 L/min)	27 SCFM (764 L/min)
CFM FAD	13.2 CFM (375 L/min)	17 CFM (481 L/min)	22.5 CFM (637 L/min)
Motor	Single or three-phase electric	Three-phase electric	Three-phase
208-230 V / E1 / 60 Hz	46 amps 10 hp (7.5 kW) SKU: 8046.1	N/A	N/A
208-230 V / E3 / 60 Hz**	28 amps 10 hp (7.5 kW) SKU: 8046.2	31 amps 15 hp (11 kW) SKU: 8053.2	48 amps 20 hp (15 kW) SKU: 8054.2
380-415 V / E3 / 50 Hz	17 amps 10 hp (7.5 kW) SKU: 8046.6	18 amps 15 hp (11 kW) SKU: 8053.6	29 amps 20 hp (15 kW) SKU: 8054.6
440-480 V / E3 / 60 Hz	17 amps 10 hp (7.5 kW) SKU: 8046.3	16 amps 15 hp (11 kW) SKU: 8053.3	25 amps 20 hp (15 kW) SKU: 8054.3
Working Pressure	6000 psi (414 bar)	6000 psi (414 bar)	6000 psi (414 bar)
RPM	880	1100	1300
Number of Stages	4	4	4
Filtration	26,000 cu ft @ 80°F	65,000 cu ft @ 80°F	65,000 cu ft @ 80°F
Condensate Drain	Automatic	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic	Automatic
Sound Level @ 3 Meters	76 dB	76 dB	76 dB
Dimensions (L x W x H)	36 x 36 x 52 in (91 x 91 x 132 cm)	36 x 36 x 52 in (91 x 91 x 132 cm)	36 x 36 x 52 in (91 x 91 x 132 cm)
Weight	549 lbs (249 kg)	550 lbs (249 kg)	609 lbs (276 kg)
Lubrication	Pressure lubrication, capacity 4 L		
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021		

*Based on 80 cu ft cylinder from 500 to 3000 psi. **For information on 50 Hz models, contact your sales representative.

NUVAIR MCH36 KUBOTA HP COMPRESSOR

Nuvair's flagship open horizontal & continuous-duty commercial high pressure compressor line utilizes the Coltri MCH36 pumping unit. The compressor can pump up to 27 SCFM (764 L/min) at 6000 psi (414 bar) when charging cylinders. The Coltri compressor block and Kubota diesel are mounted onto a steel base frame with vibration isolators, which is then placed into a powder-coated steel crash frame with belt guard.

FEATURES

Compressor

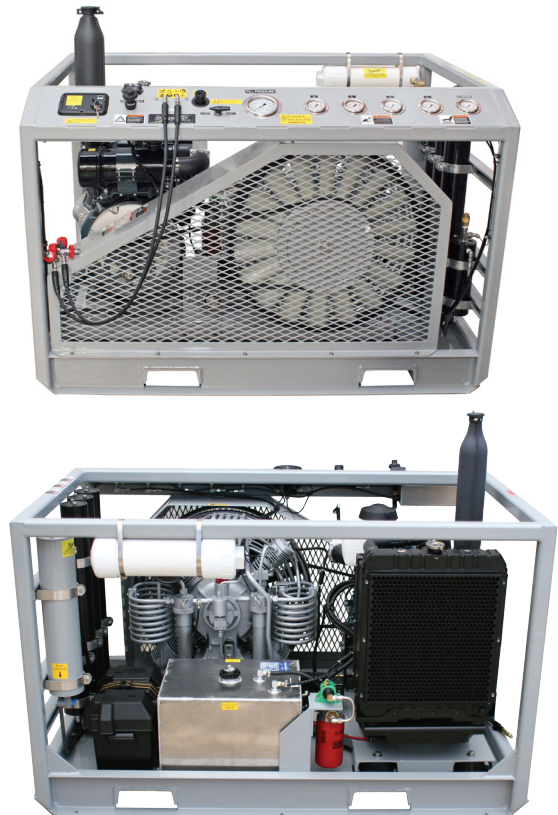
- 4-cylinder, 4-stage, air cooled
- Interstate pressure gauges
- (2) large interstage condensate separators
- Large stainless steel interstage cooling tubes
- Low pressure oil pump with filter
- Oil level sight gauge and oil pressure gauge
- Automatic condensate drains
- Low oil shutdown switch
- High temp switch
- SEP-15 high pressure moisture separator
- Dual filter filtration (60,000 cu ft)
- Visual CO / moisture indicator
- Powder coated steel frame and belt guard
- Vibration isolation frame mounts
- No load start/idle control
- 13-gallon certified fuel tank

Engine

- Kubota D1803 diesel
- Hayes bearing support block
- Hour meter
- Loadless start
- Deep sea control: indicates coil preheater, fault warning, oil pressure, high water temp, battery voltage, nominal speed

OPTIONS

- Certified lifting eyes
- Pro CO with audible alarm
- Diester based lubricant
- Moisture analyzer
- Filtration (90,000-120,000 cu ft)



SPECIFICATIONS

SKU: 8048DK	
Fill Time*	Approx 3 min
Charging Rate*	27 SCFM (764 L/min)
CFM FAD	22.5 CFM (637 L/min)
Max Operating Pressure	6000 psi (414 bar)
RPM	1300
Number of Stages	4
Oil Pressure	5.8 to 58 psi (0.4 to 4 bar)
Air Quality	Grade E
Engine	Kubota D1803 Diesel, 37 hp (28 kW), 2400 RPM
Dimensions (L x W x H)	44 x 42 x 64 in (112 x 107 x 163 cm)
Weight	1600 lbs (726 kg)
Lubrication	Capacity 4 L

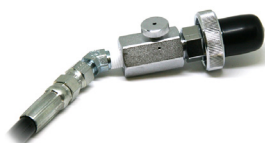
*Based on 80 cu ft cylinder from 500 to 3000 psi.

FEATURES

- All steel construction
- Grade 8 steel construction
- Third 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 cylinder



DIN Whip
SKU: NS-WHIP-DIN



SCUBA Whip
SKU: NS-WHIP-INT



SCBA Whip
SKU: NS-WHIP-SCBA

OPTIONS

- Storage bank controls (SKU: NS-Bank)
- Nitrox compatible (SKU: NS-Nitrox)
- Panel for NCC-2 (SKU: NS-Panel)
- HP regulator (SKU: NS-Reg)
- Additional gauge and valve (SKU: NS-Valve)
- Whips: Scuba Yoke or DIN, SCBA (SKU: NS-Whip)
- Booster pump
- O₂ cleaning



SKU: NSS-4P air / nitrox
All options are included.



SKU: NCC-2



SKU: NSS-2P



SKU: NSS-4P
Includes 2 fills and 4 charging banks.

Model	Cylinders	Pneumatic / Manual	Dual / Single Pressure	Weight	Dimensions (L x W x H)
NCC-2	2	Manual	Single	488 lbs (221 kg)	26 x 25 x 49 in (66 x 64 x 124 cm)
NSS-2P	2	Pneumatic	Single or Dual	555 lbs (252 kg)	26 x 25 x 59 in (66 x 64 x 150 cm)
NSS-3P	3	Pneumatic	Single or Dual	754 lbs (342 kg)	41 x 24 x 59 in (104 x 61 x 150 cm)
NSS-4P	4	Pneumatic	Single or Dual	1045 lbs (474 kg)	53 x 25 x 59 in (135 x 64 x 150 cm)

NUVAIR O₂ QUICKSTICK ANALYZER

A SIMPLE SOLUTION
for Every Nitrox Diver



The Nuvair O₂ Quickstick is the first diver-friendly oxygen analyzer available anywhere! Easy-to-use, effective, rugged and amazingly affordable, it is equally convenient for non-divers who need a quick and reliable oxygen analysis above water. The O₂ Quickstick is designed for anyone who wants the security and convenience of having their own oxygen analyzer without having to pay a small fortune to own one.

Please Note: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder, or the flow from a regulator. The flow rate of gas must equal 1-5 L/min. To produce this flow, a flow restrictor and regulator may be required.

SPECIFICATIONS*

	SKU: 9456	
Flow Rate	0.5-2 L/min	
Resolution	0.1%	
Repeatability	N/A	
Accuracy	Within ± 1% of full scale at constant temperature and pressure (0-1 atm) when calibrated with 100% oxygen	
Sensor Type	Electrochemical	
Expected Sensor Life	36 months in air at 77°F (25°C) and 50% rh	
Range	0-100% oxygen	
Alarms	N/A	
Response Time	<6 seconds for 90% of final value	
Operating Temperature	32° to 104°F (0° to 40°C)	
Operating Humidity	0 to 99% rh, non-condensing	
Storage Temperature	32° to 122°F (0° to 50°C)	
Power	9 V alkaline battery	
Dimensions	9 in (L) x 1.5 in (W)	
Weight	21.1 oz (0.34 kg)	
Warranty	0-12 Months	Free Replacement
	13-18 Months	50% Off Replacement
	19-24 Months	25% Off Replacement



FEATURES

- Fast response, thermally compensated sensor
- Completely sealed water resistant housing
- No hoses, adapters or cables required
- Easy calibration
- User replaceable battery and sensor
- Waterproof on / off switch
- Anodized marine grade aluminum body
- Pocket size

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

NUVAIR PRO O₂ ANALYZER SERIES



Please Note: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder, or the flow from a regulator. The flow rate of gas must equal 1-5 L/min. To produce this flow, a flow restrictor and regulator may be required.

SPECIFICATIONS*

Flow Rate	0.5-3 L/min
Resolution	0.1%
Accuracy	±1% of full scale at constant temperature and pressure (0-1 atm) when calibrated with 100% oxygen
Sensor Type	Electrochemical
Expected Sensor Life	36 months in air at 25°C and 50% rh
Range	0-100% oxygen
Response Time	<6 seconds for 90% of final value
Operating Temperature	32° to 104°F (0° to 40°C)
Operating Humidity	0 to 99% rh, non-condensing
Storage Temperature	32° to 122°F (0° to 50°C)
Power	9 V alkaline battery, 110/220 wall plug-in or rechargeable lithium battery
Dimensions	4 x 2 x 5.5 in (10.2 x 5 x 14 cm) panel mount 2.5 x 1.75 x 4.25 in (6.3 x 4.5 x 10.8 cm) handheld
Weight	9 oz (0.3 kg) panel mount / 7.8 oz (0.22 kg) handheld
Warranty	0-12 Months 100% parts and labor 13-18 Months 50% off sensor only 19-24 Months 25% off sensor only

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

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

OPTIONS

Pro O₂ Handheld (SKU: 9450)

Panel Mount (SKU: 9462)

- Internal sensor
- Sample low pressure gas flow
- Direct high pressure gas cylinder analysis

Pro O₂ Remote Handheld (SKU: 9452)

Remote Panel Mount (SKU: 9460)

- External sensor
- Ambient pressure gas
- Inline monitoring

NUVAIR PRO HE ANALYZER SERIES

The Pro He Analyzer is designed for simple measurement of helium in a mixed gas. The alarms featured in this model include audible and visual alarms for a set point that can shut down your compressor automatically** if out of range. Compatible with heliox and trimix. No daily calibration needed. It can be used as a continuous reading analyzer while mixing gas.

**Capable of shutting down compressor at set alarm with optional relay box.

FEATURES

- On / off switch
- Display range of 0.0-100%
- Low battery warning indicator
- (2) custom audible & visual alarms
- 4-20 mA analog output for external devices
- Single charge battery life is 30 hours

ADVANTAGES

- Fast response
- Made to test breathing gases
- Easy-to-operate, reliable and accurate
- Thermal conductivity sensor
- Easy calibration

SPECIFICATIONS*

Flow Rate	0.5-1 L/min
Resolution	0.1%
Linearity	±2% over full scale
Accuracy	±2% over full scale
Sensor Type	Thermal conductivity
Expected Sensor Life	>24 months under normal operating conditions
Range	0.0-100.0% helium in air or nitrogen or oxygen
Alarms	Two user-programmable audible and visual alarms
Response Time	<10 seconds for 90% response at 73°F (23°C)
Operating Temperature	41° to 104°F (5° to 40°C)
Operating Humidity	0-90% rh, non-condensing
Storage Temperature	5° to 122°F (-15° to 50°C)
Power	Rechargeable lithium battery or 10/230 V wall plug-in
Dimensions (L x W x H)	4 x 2 x 5.5 in (10.2 x 5 x 14 cm) panel mount (SKU:9628) 2.5 x 1.75 x 4.25 in (6.3 x 4.5 x 10.8 cm) handheld (SKU: 9627) 3.9 x 8.7 x 7.5 in (9.9 x 22.1 x 19.1 cm) waterproof box (SKU: 9608-LB)
Weight	9 oz (0.3 kg) panel mount / 7.8 oz (0.22 kg) handheld / 2 lbs 8 oz (1.27 kg) waterproof box
Warranty	1 year

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



Handheld



Panel Mount



Please Note: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder, or the flow from a regulator. The flow rate of gas must equal 1-5 L/min. To produce this flow, a flow restrictor and regulator may be required.

NUVAIR PRO TRIMIX ALARM ANALYZER

The Pro Trimix helium and oxygen analyzer measures helium (He) and oxygen (O₂) levels in gases in the range of 0 to 100% of volume with a 1% resolution. It can be used to measure the He and O₂ content in breathing gas mixes in stored gas cylinders and monitor the continuous flow of gas from a compressor. The analyzer is compatible with outdoor and marine environments. The analyzer is self-calibrating and includes audible and visual alarms for user defined set points. As an option, the analyzer can shut down a compressor by way of analog output at a user defined set point.

FEATURES

- On/off switch
- Display range of 0.0-100% O₂
- (2) custom audible & visual alarms per gas
- 4-20 mA analog output for external devices
- Capable of shutting down compressor at set alarm with optional relay cable

ADVANTAGES

- Fast response
- Made to test breathing gases
- Easy to operate, reliable and accurate
- Long-life electrochemical O₂ sensor
- Long-life thermal conductive He sensor
- Automatic calibration

Please Note: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder, or the flow from a regulator. The flow rate of gas must equal 1-5 L/min. To produce this flow, a flow restrictor and regulator may be required.



SPECIFICATIONS*

	Pro He	Pro O ₂ Alarm
Flow Rate	0.5-1 L/min	0.5-3 L/min
Resolution	0.1%	1.1%
Linearity / Repeatability	±2% over full scale (Linearity)	N/A (Repeatability)
Accuracy	±2% over full scale	±1% of full scale at constant temperature and pressure (0-1 atm) when calibrated with 100% oxygen
Sensor Type	Thermal conductivity	Electrochemical
Expected Sensor Life	>24 months under normal operating conditions	36 Months
Range	0.0-100.0% helium in air or nitrogen or oxygen	0-100% oxygen
Alarms	Two user-programmable audible and visual alarms	Two user-programmable audible and visual alarms
Response Time	<10 seconds for 90% response at 73°F (23°C)	<6 seconds for 90% of final value
Operating Temperature	41° to 104°F (5° to 40°C)	32° to 104°F (0° to 40°C)
Operating Humidity	0-90% rh, non-condensing	0 to 99% rh, non-condensing
Storage Temperature	5° to 122°F (-15° to 50°C)	32° to 122°F (0° to 50°C)
Power	Rechargeable lithium battery with 110/230 V charger	
Dimensions (L x W x H)	3.9 x 8.7 x 7.5 in (9.9 x 22.1 x 19.1 cm)	
Weight	2 lbs 12 oz (1.2 kg)	

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

NUVAIR PRO CO ALARM ANALYZER

Nuvair CO analyzers detect levels of carbon monoxide that could be harmful to a diver before the gas reaches the diver. Our CO analyzers connect in-line with high pressure compressors to monitor tank fills or on low-pressure compressors used by surface-supplied divers. Visual and audible alarms warn of potential CO hazards. Depending on your requirements, we have three styles of CO analyzers that can be portable or mounted directly to the compressor.

FEATURES

- Tank readings through restrictor or in-line monitoring on compressor
- Temperature compensated sensor
- User replaceable battery options
- Low battery warning indicator
- Made to test breathing gases**
- Optional relays for external alarm or compressor control

Handheld



Panel Mount



SPECIFICATIONS*

Flow Rate	0.5-1 L/min
Resolution	1 ppm
Repeatability	<+5%
Accuracy	±5%
Sensor Type	Electrochemical
Expected Sensor Life	>24 months in normal use from date of manufacture
Range	0-50 ppm CO
Alarms	Two user-programmable audible and visual alarms
Response Time	<50 seconds over complete temperature range
Operating Temperature	14° to 122°F (-10° to 50°C) continuous -4° to 122°F (-20° to 50°C) intermittent
Operating Humidity	Non-condensing: 15-90% continuous, 0-99% intermittent
Storage Temperature	14° to 140°F (-10° to 60°C)
Power	9 V battery, rechargeable lithium battery, 110/220 V wall plug-in or 12 V DIN rail (panel mount only)
Dimensions	4 x 2 x 5.5 in (10.2 x 5 x 14 cm) panel mount 2.5 x 1.75 x 4.25 in (6.3 x 4.5 x 10.8 cm) handheld 3.9 x 8.7 x 7.5 in (9.9 x 22.1 x 19.1 cm) waterproof box
Weight	9 oz (0.3 kg) panel mount / 7.8 oz (0.22 kg) handheld / 2 lbs 8 oz (1.27 kg) waterproof box
Warranty	12 months from date of purchase, covers parts and labor

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

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

Waterproof Box



Please Note: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder, or the flow from a regulator. The flow rate of gas must equal 1-5 L/min. To produce this flow, a flow restrictor and regulator may be required.

The Pro CO₂ analyzer measures carbon dioxide levels of breathing gas mixtures and air. We offer three models that can be connected in-line on your high- or low-pressure compressor for continuous monitoring of any CO₂ contamination in your gas. The CO₂ sensor is auto-calibrating and provides a temperature compensated, linear CO₂ measurement over sensing range.

FEATURES

- On / off switch
- Low battery warning indicator
- Two custom audible and visible alarms for low and high set points
- Optional relays for external alarm or compressor control
- Non-dispersive infrared
- Fast response
- Made to test breathing gases**
- Easy to operate, reliable and accurate

SPECIFICATIONS*

Flow Rate	0.5-1 L/min
Resolution	1 ppm
Repeatability	±2% of full scale @ 68°F (20°C) ambient
Linearity	At ambient temperature and constant pressure: ± 2% FSD or ± 10% of the reading, whichever is greater
Sensor Type	NDIR non-dispersive infrared
Expected Sensor Life	5 years
Range	0-2000 ppm
Alarms	Two user-programmable audible and visual alarms
Response Time	< 30 seconds @ 68°F (20°C) ambient
Warm-up Time	1 minute @ 68°F (20°C) ambient to final zero ± 0.2% of range; 10 minutes for maximum accuracy
Operating Temperature	-4° to 122°F (-20° to 50°C)
Operating Humidity	0 to 95% rh, non-condensing
Storage Temperature	-4° to 122°F (-20° to 50°C)
Power	110/230 V plug-in, rechargeable lithium battery or DIN rail (9617 only)
Dimensions (L x W x H)	4 x 2 x 5.5 in (10.2 x 5 x 14 cm) panel mount (SKU: 9617) 2.5 x 1.75 x 4.25 in (6.3 x 4.5 x 10.8 cm) handheld (SKU: 9616) 3.9 x 8.7 x 7.5 in (9.9 x 22.1 x 19.1 cm) waterproof box (SKU: 9615-LB)
Weight	9 oz (0.3 kg) panel mount / 7.8 oz (0.22 kg) handheld / 2 lbs 8 oz (1.27 kg) waterproof box
Warranty	12 Months

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

**Calibration must be confirmed with calibration CO₂ test gas.

Please Note: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder, or the flow from a regulator. The flow rate of gas must equal 1-5 L/min. To produce this flow, a flow restrictor and regulator may be required.



NUVAIR 455

FOOD GRADE SYNTHETIC RECIPROCATING OIL

APPLICATION

Nuvair 455 is a fully synthetic, premium quality food grade oil designed for use in high and low pressure breathing air systems. It is suitable for use in reciprocating compressors operating on up to 40% oxygen enriched air.

CHARACTERISTICS

- Available in quart, one-gallon and five-gallon containers
- Outstanding wear and lubricity properties
- Low pour point and high flash point
- Excellent compatibility with elastomers, seals, plastics and paints
- Good corrosion protection
- Less varnish formation
- Rated by the manufacturer for use with nitrox up to 40% oxygen content*



SPECIFICATIONS

Typical Properties	ASTM Test Method	Nuvair 455
SAE Grade	SAE J-300	30
ISO Grade	D2422	100
Viscosity		
@ 104°F, cSt	D445	98.7
Viscosity Index	D2270	145
Flash Point		
°F	D92	500°F
°C	D92	260°C
Pour Point		
°F	D97	-40°F
°C	D97	-40°C
Evaporation %	D972	<0.50
Foaming Sequence I, II, III	D892	<20/0
Specific Gravity	D4052	0.85

NUVAIR 546

FOOD GRADE SYNTHETIC ROTARY SCREW OIL

APPLICATION

Nuvair 546 is designed for 2,000 hours of use in rotary screw compressors generating up to 40% oxygen enriched air. When used in EANx compressors, oil life decreases with the production of higher oxygen concentrations.

CHARACTERISTICS

- Available in one and five-gallon containers
- Outstanding thermal oxidative stability
- Compatible with most seals, plastics and rubbers
- Very low pour point
- Wide operating temperature range
- Non-detergent
- Extended oil life reduces oil disposal, thus increasing cost-effectiveness
- Rated by the manufacturer for use with nitrox up to 40% oxygen content*
- Complies with FDA 21 CFR 178.3570 H-1

SPECIFICATIONS

Typical Properties	ASTM Test Method	Nuvair 546
SAE Grade	SAE J-300	20
ISO Grade	D2422	46
Viscosity		
@ 104°F, cSt	D445	45
Viscosity Index	D2770	143
Flash Point		
°F	D92	523°F
°C	D92	273°C
Pour Point		
°F	D97	-40°F
°C	D97	-40°C
Evaporation %	D972	<1.0
Foaming Sequence I, II, III	D829	<10/0
Copper Corrosion	D130	1b
Specific Gravity	D4052	0.84
Demulsibility	D1401	Excellent

*Must be used properly and meet all conditions of use listed by Nuvair and Coltri.

SPECIFICATIONS

Typical Properties	ASTM Test Method	Nuvair 751
SAE Grade	SAE J-300	40
ISO Grade	D2422	150
Viscosity		
@ 104°F, cSt	D445	146.5
Viscosity Index	D2770	90
Flash Point		
°F	D92	522°F
°C	D92	272°C
Pour Point		
°F	D97	-13°F
°C	D97	-25°C
Evaporation %	D972	1.0
Foaming Sequence I, II, III	D829	<10/0
Copper Corrosion	D130	1a
Specific Gravity	D4052	0.93
Demulsibility	D1401	Excellent
Carbon Residue %	D189	<0.01

APPLICATION

Nuvair 800 is a high-viscosity synthetic oil using a highly stable triester base fluid. It is designed for use in reciprocating compressors under adverse conditions of high temperature and high pressure.

CHARACTERISTICS

- Available in quart, one-gallon and five-gallon containers
- Wide operating temperature range of 5°F to 445°F (-15°C to 230°C)
- Outstanding thermal and oxidative stability
- Will not varnish or form carbon deposits
- Excellent heat transfer characteristics
- Low volatility and low toxicity
- Rated by the manufacturer for use with nitrox up to 40% oxygen content*

Caution: May affect some paint finishes, plastics and seals.



*Must be used properly and meet all conditions of use listed by Nuvair and Coltri.

APPLICATION

Nuvair 751 is a diester/organic compound blend and was designed to be used at higher temperatures in reciprocating compressors where they will not varnish like many other petroleum and synthetic oils.

CHARACTERISTICS

- Available in quart, one-gallon and five-gallon containers
- Outstanding thermal and oxidative stability
- Will not varnish or form carbon deposits
- Wide operating temperature range of 5°F to 445°F (-15°C to 230°C)
- Built in detergency action
- Extended oil life reduces oil disposal, thus increasing cost-effectiveness
- Not recommended for use in LP breathing air applications
- Rated by the manufacturer for use with nitrox up to 40% oxygen content*

Caution: May affect some paint finishes, plastics and seals

NUVAIR 800

SYNTHETIC TRIESTER-BASED OIL

SPECIFICATIONS

Typical Properties	ASTM Test Method	Nuvair 800
SAE Grade	SAE J-300	40
ISO Grade	D2422	150
Viscosity		
@ 104°F, cSt	D445	141.5
@ 212°F, cSt	D445	12.8
Viscosity Index	D2770	79
Flash Point		
°F	D92	535°F
°C	D92	279°C
Pour Point		
°F	D97	-20°F
°C	D97	-29°C
Auto Ignition		
°F	D1255	735°F
°C	D1255	391°C
Evaporation %	D972	<1.0
Water Solubility		
<0.01 g/l @ 20°C		Insoluble
Specific Gravity		0.97

NUVAIR HP PURIFICATION SYSTEMS

Purifying High Pressure Gases Including Air and Nitrox

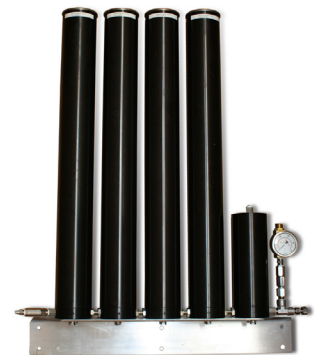
Proper filtration requires consideration based on many conditions: Compressor output, ambient temperature, humidity, compressor type, amount of oil and condensate needed to be removed, filter life and desired purity of the gas. Nuvair can size your filtration system to meet any quality standard using our 15, 25 or 35 inch towers alone or in-line. Larger systems can offer longer filter life, better gas quality and provide cost savings for the filters. This is done by using less expensive filter media for drying in front of more expensive final filters with activated carbon and CO catalyst.

FEATURES

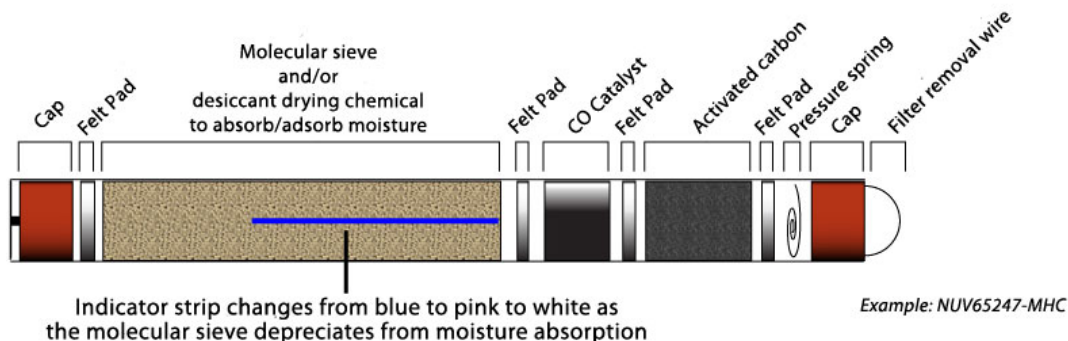
- Hard anodized 6061 aluminum filter towers
- Designed and tested with a 4/1 safety factor
- Flow rates to 65 CFM (1850 L/min)
- Working pressure to 5000 psi (345 bar)
- Uni Strut with 3 in aluminum clamps
- Stainless steel plumbing
- Disposable filter elements with clear housing that allows visual inspection of chemicals inside
- Mechanical moisture separator
- Over pressure relief
- Inlet check valve
- Manual bleed to relieve pressure for filter changes
- Pressure maintaining valve for proper filtration

OPTIONS AND UPGRADES

- Stainless steel mounting panel or 4 x 4 in anodized aluminum angle base
- Valves and/or pressure gauges
- 6000 psi (414 bar) filter towers
- Visual CO / moisture monitor
- Electronic H₂S, CO, and / or CO₂ alarm analyzer with shutdown capability
- Isolation valve
- Flow fuse
- Flow restrictor
- OCA (oxygen compatible air)



TRI-CHEM BREATHING FILTER



10 Year Hydro Test HP Cylinders

We are taking advantage of the latest cylinder technology available. Our new storage tanks are lightweight 4500, 5000 and 6000 psi tanks that can be filled and transported across most of the world's borders. All tanks have a 10 year hydro test interval and 25E valve inlet threads. All cylinders are designed under specification ISO 9809 - 2:200 - parts 1 & 2 and are DOT qualified.

Nuvair also offers stock and custom designed storage racks for your high pressure tanks. Vertical or horizontal racks made from heavy duty steel cradle and manifold systems are included. We also offer plumbing for storage systems in standard 6000 psi flexible hose or custom stainless steel tube. Our standard racks accommodate 6, 12, 16 or 18 tanks and custom racks can be built specifically to meet your needs.

FEATURES

- DOT-E10869-4500/ TC-SU4369-310
- Can be used horizontal or in vertical position
- 4500 psi (310 bar) 437 cu ft
- 5000 psi (345 bar) 472 cu ft
- 6000 psi (414 bar) 510 cu ft



CGA Tank Valve

Storage Regulator

NUVAIR AIR COMPRESSOR ACCESSORIES

Hoses | Fittings | Valves | Switches | Gauges | Auto Drains

Nuvair offers a wide range of accessories and components for compressors and containment systems.



Stock and Custom Gas Panels

Nuvair stocks two bank and four bank gas management panels ready to ship in our standard configurations. If you are configuring a customized gas fill station, you may require a special panel and filling station. The possibilities are endless, depending on the size of your space and equipment. The panels below have all been custom made to suit the exact specifications of the operator. All panels are available with Tescom regulators upon request.



Nuvair is an authorized distributor and service center for Haskel boosters. A booster takes gases from a low pressure source, increases the pressure, and delivers it to a high pressure destination. No need for motors or engines; the booster is powered by a secondary supply of compressed air.

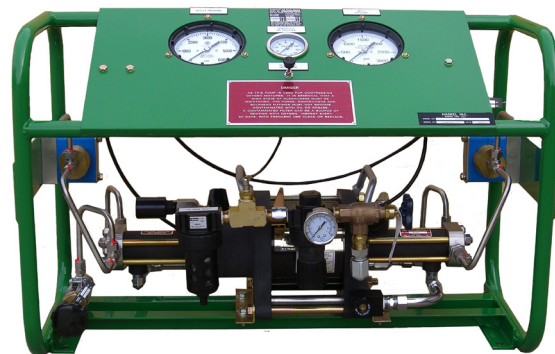
Haskel is a recognized leader in high pressure technology, manufacturing high pressure air driven liquid pumps, gas boosters, air amplifiers, systems and accessory equipment. Haskel International Inc. is the world's leading manufacturer of hydraulic and pneumatic driven, high pressure systems and accessories. For nearly 60 years, Haskel has manufactured a wide range of high pressure air driven liquid pumps, gas boosters, air amplifiers, systems and accessory equipment.

Haskel gas boosters consist of a large area reciprocating air drive piston directly coupled by a connecting rod to a small area gas piston. The gas piston operates in a high pressure gas barrel section. Each gas barrel end cap contains high pressure inlet and outlet check valves. The air drive section includes a cycling spool and pilot valves that provide continuous reciprocating action when air is supplied to the air drive inlet. Depending on the application, the Haskel basic booster is supplied as a single-stage / double-acting or two-stage design for integration by the customer. Both designs feature the HG series gas booster.

Single Acting Single Stage boosters provide economical means of boosting pressure for testing or small components and similar applications where volume is small and efficiency is not important. Control of maximum outlet pressure is accomplished with the use of an air drive pressure regulator. Maximum outlet pressure is drive area ratio multiplied by air pressure.

Double Acting Single Stage boosters not only pump twice the volume of a Single Acting, Single Stage booster per cycle, but also require less air drive since the inlet gas pressure is assisting the air drive in each direction, providing a substantial portion of the required driving force. These models provide efficient means of boosting large volumes of gas at low to medium compression ratios. Maximum outlet pressure is drive area ratio times air drive pressure plus gas supply pressure.

Two-Stage Gas boosters provide efficient means of boosting to a high gas compression ratio since the ratio per stage is low. Maximum outlet pressure with these models is drive area ratio multiplied by air drive pressure plus supply pressure multiplied by the area ratio of the two gas pistons.



SELECTING A BOOSTER

When purchasing a booster, there are seven important parameters that will affect your decision.

1. What is the maximum pressure it will be used for?
2. What flow rate is required or if filling a tank how long can it take?
3. Will the supply gas come from a large or small tank?
 - a. Will the supply tank pressure be dropping fast or slow?
 - b. Will it start at a high pressure or low pressure compared to your fill pressure in the tank being filled?
 - c. What pressure do you want to drain your supply tank down to?
4. Will you have drive air available?
5. How much and at what pressure?
6. What gas will you be pumping?
7. What is the application?

ADVANTAGES

- Air driven-no electricity required
- No airline lubricator required
- Hydrocarbon free separation between air and gas sections
- Pressures to 39,000 psi (2690 bar)
- Built-in-cooling on most models
- Standard and custom systems available
- Single, double acting and two-stage models

ORDERING

NUVAIR TERMS AND CONDITIONS

Open Terms

A 50% deposit at time of order is required; the balance is due prior to shipping. Open billing is at the sole discretion of Nuvair and requires pre-approval by Nuvair. Standard open account terms are net 30 days from the date of invoice. Should a buyer neglect to pay Nuvair on time or create doubt of the buyer's financial responsibility, Nuvair has the right to revoke any terms granted.

Payment Terms for New Accounts and Online Orders

Orders made over the Internet or from new customers require pre-payment before shipping in the form of a credit card, company check, PayPal, wire transfer or cash.

If you are interested in net 30 terms, please contact Nuvair for a credit application. Nuvair uses several outside service bureaus to determine company or personal credit worthiness and does not guarantee credit terms will be made available to new or returning customers.

Nuvair does business in US dollars. Any orders from outside the US may require the purchaser to cover additional bank charges from wiring fees to notary services. Payment using personal checks are accepted by Nuvair; however, we will not ship until the funds have been received in our bank account. Returned checks will be assessed a \$35.00 handling charge on all non-sufficient funds. Additionally, Nuvair may require pre-payment for any further transactions before shipping future shipments.

Custom and Special-Order Items

Custom built products and products requiring non-inventory parts require payment in advance from customers who do not have credit terms with Nuvair. These products are sold as-is to everyone and are not cancelable or returnable for any reason.

Freight

FOB Oxnard, California. We use multiple shipping companies to ensure the quality service and good rates for our customers.

Orders

You may purchase through Nuvair by using our online store, email, phone, walk-in or fax. When in doubt, or if you need special attention for your order, contact a Nuvair sales associate. Order confirmations are sent out via email or fax. *Information within this catalog is subject to change without notice.*



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NOTES

This image shows a full page of white paper with horizontal grey ruling lines. The lines are evenly spaced and run across the width of the page. On the far left edge, there is a vertical strip of blue color containing the word "NOTES" written vertically in white capital letters.

[illegible]

[illegible]



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