Nuvair®
.com
Compressed Gas Solutions

Breathing Air Products Catalog

Compressed Gas Solutions for Recreational & Commercial Diving, Fire & Safety, Military, Medical, and Government Sectors

COMMPRESSORS · BOOSTERS · ANALYZERS · FILTRATION · NITROX · STORAGE · CONTAINMENT

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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.

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WHY USE THE NUVAIR NITROX MEMBRANE SYSTEM?

Simple
- Complete turnkey operation
- Easiest, most stable system available
- Adjust regulated input for desired O_2%
- Only 1 hour operator training required
- 2 hour average installation
- No compressor modifications

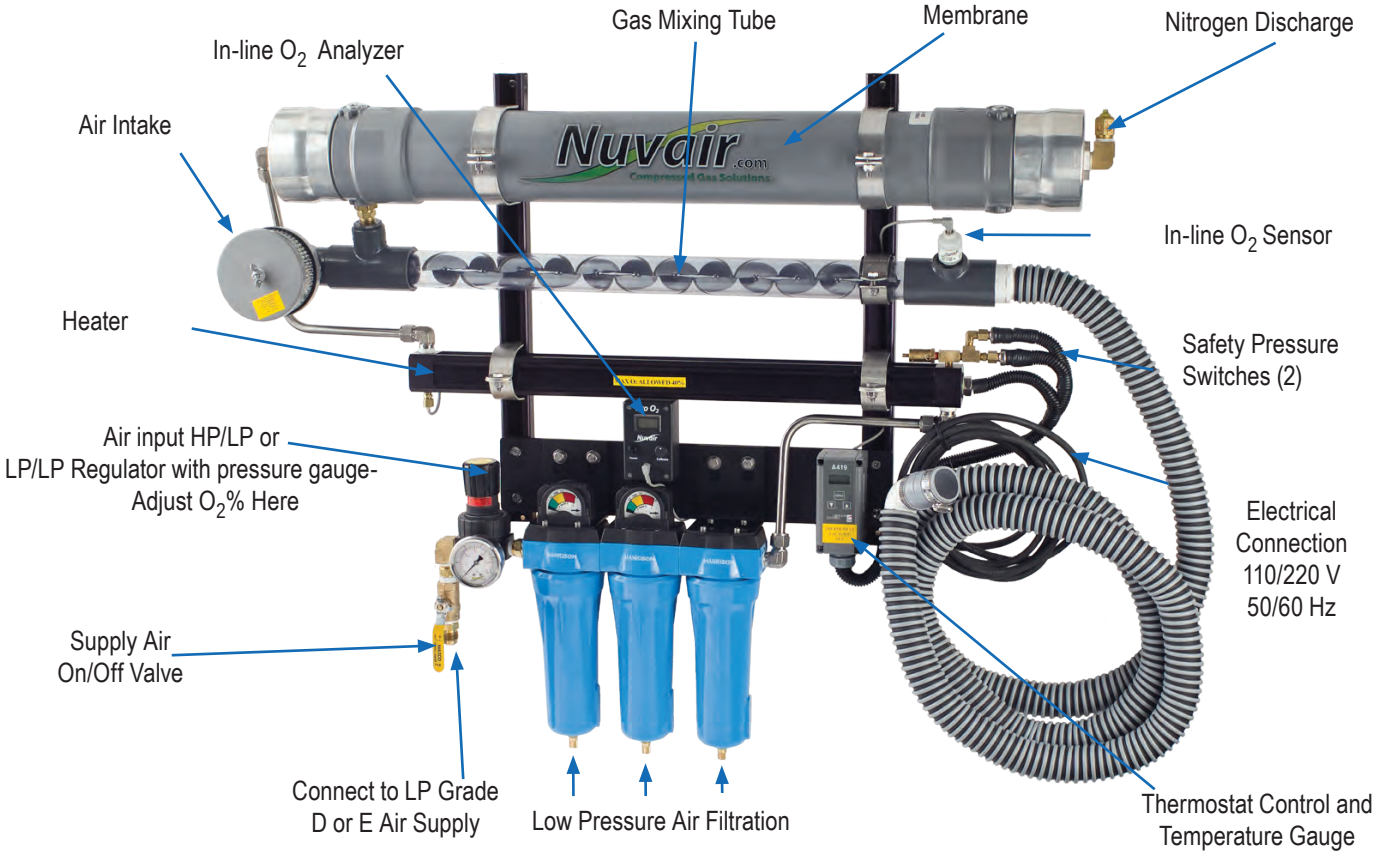
Reliable
- Mix accurate to 0.1%
- 20-30 year membrane life
- Limited 3 year membrane warranty

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 O_2 cleaning of tanks or equipment
- No blending courses required
- No high pressure oxygen on site
- No expensive blending panels or OCA filters
- No worries about voiding compressor warranty
- No worries about fire inspector 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



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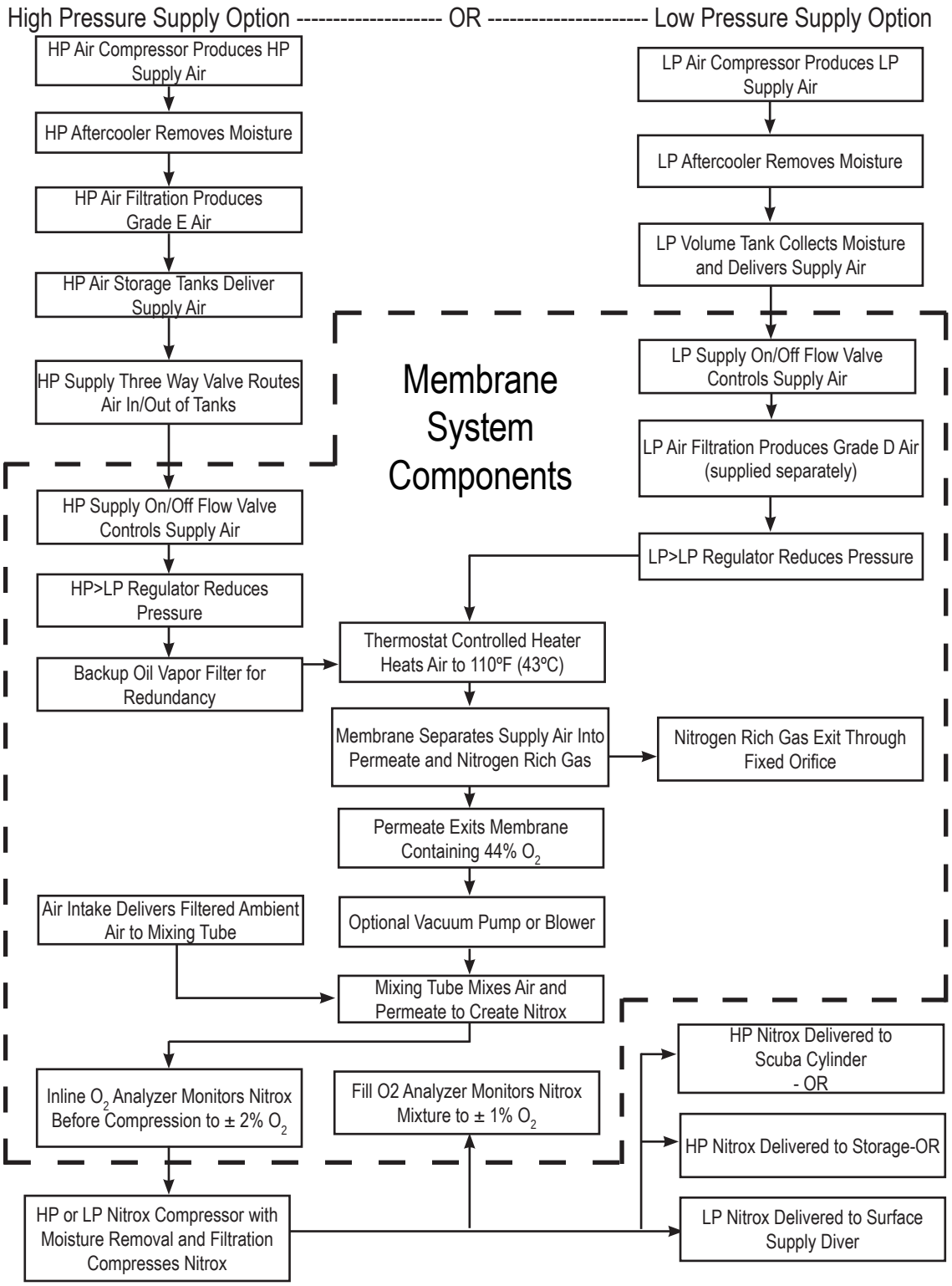
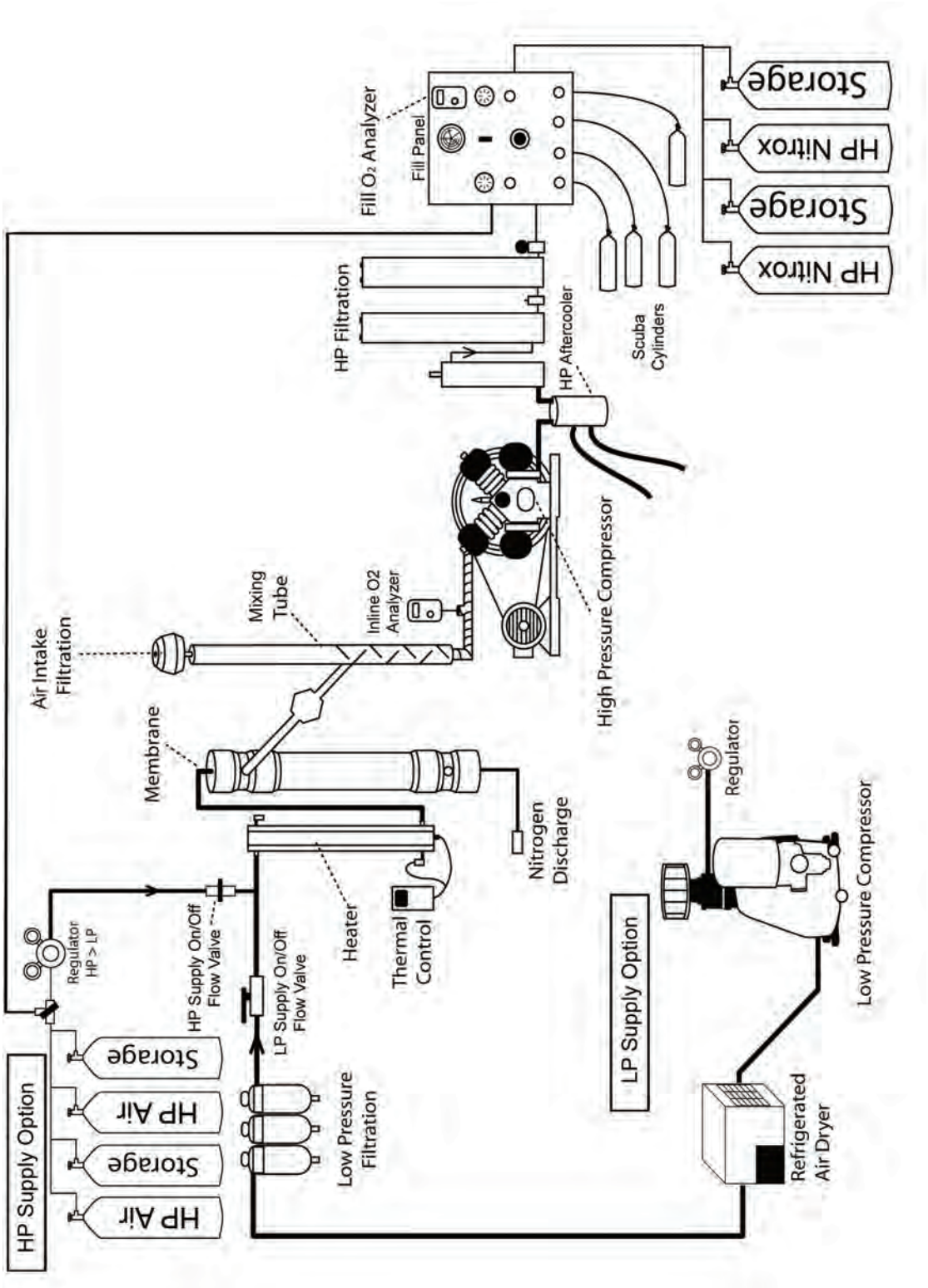
NITROX MEMBRANE SYSTEM FLOW CHART



SYSTEM DIAGRAM



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MEMBRANE SYSTEM SPECIFICATIONS

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 ±5ºF 43 ± 3ºC	110 ±5ºF 43 ± 3ºC	110 ±5ºF 43 ± 3ºC	110 ±5ºF 43 ± 3ºC	110 ±5ºF 43 ± 3ºC	110 ±5ºF 43 ± 3ºC
Input	Operating Pressure	80-170 psi (6-12 bar)	80-170 psi (6-12 bar)	80-170 psi (6-12 bar)	80-170 psi (6-12 bar)	80-170 psi (6-12 bar)	80-170 psi (6-12 bar)
	Maximum Input Pressure	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)	300 psi (21 bar)
	Supply Air Volume Range	4-15 SCFM 106-425 L/min	8-25 SCFM 212-708 L/min	13-40 SCFM 354-1133 L/min	20-50 SCFM 566-1416 L/min	25-80 SCFM 708-2266 L/min	40-125 SCFM 1133-3540 L/min
	LP / HP Supply Air Quality	LP-Grade D HP-Grade E	LP-Grade D HP-Grade E	LP-Grade D HP-Grade E	LP-Grade D HP-Grade E	LP-Grade D HP-Grade E	LP-Grade D HP-Grade E
Out-put	Nitrox O_2% Range	21-40%	21-40%	21-40%	21-40%	21-40%	21-40%

Compressor Recommendations

LP Air Supply Compressor	Delivery @ 175 psi for 40% O_2	9-18 SCFM 255-510 L/min	18-30 SCFM 510-850 L/min	30-48 SCFM 850-1359 L/min	48-60 SCFM 1359-1699 L/min	60-96 SCFM 1699-2719 L/min	96-150 SCFM 2719-4248 L/min
	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

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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.

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

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VOYAGER 315 NITROX GENERATOR

The Nuvair Voyager 315 Nitrox System is a turnkey package that produces oxygen rich air (nitrox) and compresses the nitrox mixture with a high pressure (HP) compressor to fill scuba tanks or storage cylinders. The package is designed to be fully automatic, with an enclosed cabinet for noise reduction and protection from moving parts. Its modular, two-part cabinet system fits through most doorways.

SKU 7037.6

FEATURES

- Fully Featured for Automatic Operation
- Enclosed and Silenced Cabinet
- Modular, Two-Part Cabinet System Fits Through Most Doorways
- 10 CFM Nuvair Membrane System
- Ingersol Rand EK76 Rotary Screw LP Compressor
  - Pump Rated at 29 ACFM @ 175 psi for Membrane Supply
  - High Quality 10 hp Electric Motor
- Three-Stage High Pressure Compressor
  - Pumps Air to 4500 psi (310 bar); Nitrox to 3800 psi (262 bar)
  - Pump Rated at 10.6 CFM
  - High Quality 7.5 hp Electric Motor
- Two (2) Pro O_2 analyzers (one permeate and one fill oxygen analyzer)
- Hankison 3-Stage LP Air Filtration
- Automatic Dial-a-Pressure Shutdown
- Automatic LP/HP Condensate Drains
- Push Button On/Off Motor Starters
- External Oil Sight Gauge, Fill and Drain
- High Cabinet Temperature Shutdown
- Cabinet Temperature Gauge
- Cooling Fans
- LP and HP Hour Meters
- Overall Size: 41.59 x 56.12 x 67.0" (105.6 x 142.5 x 170.2 cm)
- Main Cabinet Housing: 41.59 x 33.84 x 66.81" (105.6 x 86.0 x 169.7 cm)
- Rear Equipment Stand: 42.0 x 34.0 x 67.0" (106.7 x 86.4 x 170.2 cm)
- Refrigerated Air Dryer
- (1) CAN-35 Filtration Tower processes 26,000 ft³ of Grade E air

Rear View

ADVANTAGES

- Complete state-of-the-art LP/HP nitrox generating system
- Pump HP air or nitrox containing up to 40% oxygen (EANx40) at 10 CFM
- None of the costs, hassles, or hazards of oxygen blending
- Simplest, most cost-effective solution available
- Semi-silenced enclosure reduces operating noise

OPTIONS

- CO_2 Scrubber (SKU 6070.5, as pictured)
- Standalone volume tank can be used in place of the refrigerated air dryer
- Second CAN-35 Filtration Tower (as pictured)
- Pro H_2O (moisture), Pro CO (carbon monoxide), and/or Pro CO_2 (carbon dioxide) analyzers (As pictured: [1] Pro CO, [1] Pro CO_2, [1] Permeate and [1] Fill Pro O_2 analyzers installed)
- Available Supply Power Options: 208-230V/E1-E3/50-60Hz, 380-415V/E1-3/50 Hz, or 440-480V/E3/60Hz

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VOYAGER IV COMMERCIAL NITROX GENERATOR

A commercial duty nitrox generator designed to meet and exceed all international commercial diving standards: IMCA, OSHA & ADC

The Voyager IV Commercial compressor package integrates two compressors into an enclosed cabinet with large, easy-to-remove access doors for maintenance. The cabinet reduces compressor noise and offers a nice control panel on the front for easy operation. Using an EK76 LP compressor and Coltri MCH series HP compressors, the Nuvair Voyager IV (7049-C Series) produces 22% to 40% nitrox at 9.3–18 CFM (263–510 L/min) FAD.

FEATURES

- Large LP oil / air cooler with exhaust air fan
- Refrigerated air dryer for extended filter life
- Hankison LP filtration (four filters with 1000-hour element life)
- Nuvair membrane system
- Permeate and fill O_2% analyzers with high/low alarms
- Pumps air up to 5000 psi (345 bar) and produces 22-40% nitrox (≤EANx40) at 3600 psi (250 bar)
- Interstage pressure gauges
- 90,000 cu ft HP filtration O_2 compatible air or nitrox
- Digital cabinet temperature gauge
- Digital heater thermostat control
- LP / HP hour meters
- High pressure dial-a-pressure shutdown
- High temperature shutdown
- Low oil shutdown
- LP and HP automatic condensate drains
- Warning light system for all the monitors built into the system
- Compressors use 100% O_2 compatible lubricant

SPECIFICATIONS

- Dimensions (L x W x H): 35 x 62 x 68 in
- (89 x 158 x 173 cm)
- Weight: 1550 lb (704 kg)
- Premium EFF Motors with soft start controls
- Three-phase 208-230 V, 380-415 V, or 440-480 V
- EK76 - 59 CFM (1670 L/min)
- Coltri MCH36 - 26.4 SCFM (747 L/min)

ANALYZERS

- (2) O_2 Alarm Analyzer with shutdown
- CO Alarm Analyzer with shutdown
- CO_2 Alarm Analyzer with shutdown
- Moisture Alarm Analyzer with shutdown

ADVANTAGES

- Complete state-of-the-art LP and HP nitrox generating system
- Silenced and enclosed for cool and quiet operation
- Pump air or nitrox up to 40% O_2
- Carbon dioxide scrubber
- Electronic moisture monitoring with alarm & shutdown
- Multiple visual and audible alarms

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VOYAGER II / III / IV NITROX GENERATOR

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 O_2% 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, CO_2 or H_2S Alarm Analyzer with shutdown capability
- Nitrox manager
- 90,000 cu ft filtration upgrade or OCA
- Dial-a-pressure shutdown
- High / Low O_2% automatic shutdown
- Wheels
- CO_2 scrubber

ADVANTAGES

- Complete state-of-the-art LP and HP nitrox generating system
- Silenced and enclosed for cool and quiet operation
- Pump air or nitrox up to 40% O_2

SPECIFICATIONS

	Voyager II	Voyager III	Voyager IV
Dimensions (L x W x H)	37 x 68 x 70 in (94 x 173 x 178 cm)	37 x 68 x 70 in (94 x 173 x 178 cm)	37 x 68 x 70 in (94 x 173 x 178 cm)
Weight	1425 lb (646 kg)	1474 lb (669 kg)	1625 lb (737 kg)
230 V / E1 / 60 Hz	95A **SKU 7044.1**	N/A	N/A
230 V / E3 / 60 Hz*	46A **SKU 7045.2**	79A **SKU 7047.2**	95A **SKU 7049.2**
380-415 V / E3 / 50 Hz	23A **SKU 7045.6**	44.5A **SKU 7047.6**	50A **SKU 7049.6**
460 V / E3 / 60 Hz	26A **SKU 7045.3**	39A **SKU 7047.3**	55A **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 (7.5 kW)	15 hp (11 kW)
HP Compressor	9.3 CFM (263 L/min)	11 CFM (311 L/min)	17 CFM (481 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.

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VOYAGER OPEN II / III / IV NITROX GENERATOR

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 filters)
- Nuvair membrane system
- Digital heater thermostat control
- Permeate and fill O_2% analyzers
- HP compressor: Air to 6000 psi (414 bar) | nitrox to 3600 psi (250 bar)
- NEMA 4x motor control boxes with soft start
- Interstage pressure gauges
- 60,000 cu ft HP filtration
- LP / HP hour meters
- High pressure shutdown
- High temperature shutdown
- Low oil shutdown
- Automatic LP and HP condensate drains
- Marine grade aluminum frame with stainless steel compressor plate
- Crash frame with four-point lifting eyes

ADVANTAGES

- Complete state-of-the-art LP and HP nitrox generating system
- Pump air or nitrox up to 40% O_2
- Open model for cool running

OPTIONS

- CO, CO_2, O_2, H_2S or moisture analyzers
- Nitrox manager
- CO_2 scrubber
- 90,000 cu ft filtration upgrade or OCA
- Dial-a-pressure shutdown
- High / low O_2% automatic shutdown

SPECIFICATIONS

	Voyager II	Voyager III	Voyager IV
Dimensions (L x W x H)	76 x 38 x 66 in (193 x 97 x 168 cm)	76 x 38 x 66 in (193 x 97 x 168 cm)	76 x 38 x 66 in (193 x 97 x 168 cm)
Weight	1025 lb (466 kg)	1215 lb (552 kg)	1275 lb (580 kg)
208-230 V / E1 / 60 Hz	95 A SKU 7041.1	N/A	N/A
208-230 V / E3 / 60 Hz	46 A SKU 7041.2	79 A SKU 7042.2	95 A SKU 7043.2
380-415 V / E3 / 50 Hz	23 A SKU 7041.6	44.5 A SKU 7042.6	50 A SKU 7043.6
440-480 V / E3 / 60 Hz	26 A SKU 7041.3	39 A SKU 7042.3	55 A SKU 7043.3
LP Compressor			
Capacity @ 175 psi	29 CFM (821 L/min)	44 CFM (1246 L/min)	59 CFM (1671 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 (7.5 kW)	15 hp (11 kW)
HP Compressor	9.3 CFM (263 L/min)	13.2 CFM (374 L/min)	17 CFM (481 L/min)

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TRAVELER II

This portable, turnkey nitrox system is built for the enriched air diver who wants tank fills on-the-go. Powered by either gas engine or 220-volt electric motor, the Nuvair Traveler II delivers air or generates nitrox up to 40% oxygen (EANx40) at 4.2 SCFM (119 L/min). Say goodbye to repeated trips to the dive shop for expensive nitrox refills! Fill your standard 80 cu ft cylinder to 3000 psi (207 bar) at home, on vacation or offshore in just 22 minutes. The Traveler II is manufactured at Nuvair's California production facility.

FEATURES

- Four stage 4.2 SCFM high pressure compressor
- 5 hp low pressure compressor, 13 CFM @ 90 psi
- 21–40% nitrox fills
- Nuvair 6 CFM membrane system
- Pro O_2 Analyzer for fill oxygen percentage
- Pro O_2 Analyzer for permeate in-line oxygen percentage
- 110V or 220V thermostatically controlled heater
- LP > LP regulator for oxygen percentage adjustment
- LP supply pressure and regulated pressure gauges
- Hankison Series 16 LP filtration pack
- NorthStar e420 9.8 hp EFI horizontal OHV gas engine, electric start, 3A charging system
- Tachometer / hour meter
- 600-watt inverter
- 12V battery

7052G with NorthStar Gas Engine

OPTIONS

- Automatic condensate drains
- High temperature shutdown
- Automatic fill pressure shutdown
- Preset maximum fill blocks 3000 psi (207 bar) and 4500 psi (310 bar)
- Solar charger
- Norgren Series 74 LP filtration, auto drains/dual pressure gauges
- 220V electric motor, 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 (145 x 58 x 124 cm)	57 x 23 x 49 in (145 x 58 x 124 cm)
Weight	430 lb (195 kg)	430 lb (195 kg)
LP Compressor	15 CFM (425 L/min) Capacity @ 175 psi	15 CFM (425 L/min) Capacity @ 145 psi
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	2-4 SCFM (57-113 L/min)	2-4 SCFM (57-113 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 (119 L/min)	4.2 SCFM (119 L/min)
Fill Time*	~22 minutes	~22 minutes
Power - Electric	N/A	7.5 hp (5.5 kW)
Power - Gas	9.8 hp (7.2 kW)	N/A

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

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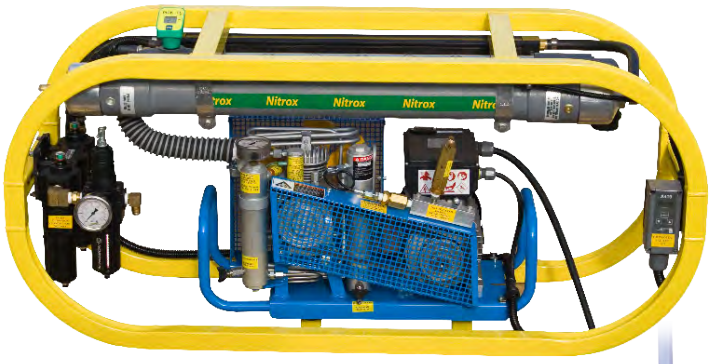
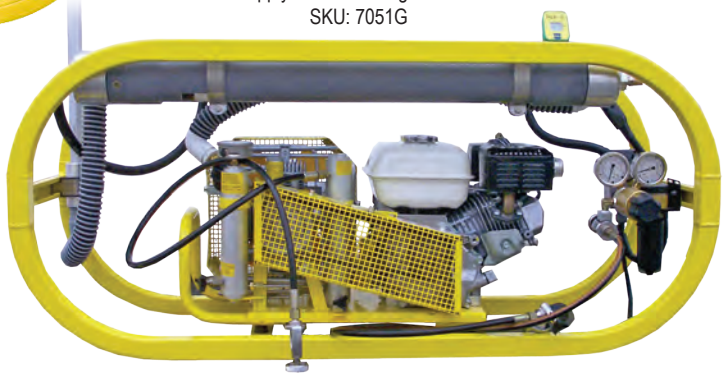
TRAVELER

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 O_2 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 O_2 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	16 x 51 x 22 in (41 x 130 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.

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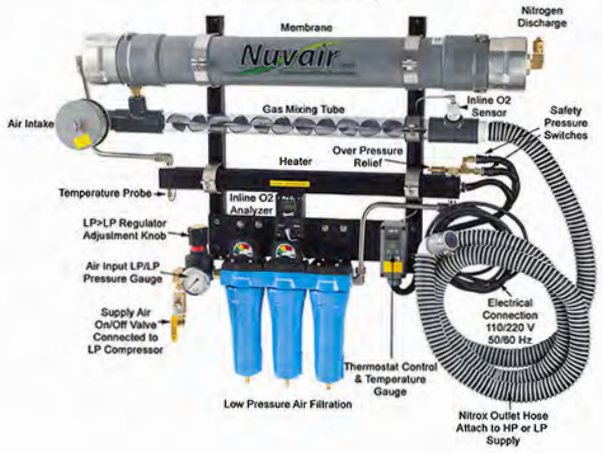
TRAVELER LP WALL MOUNT SCROLL

Powered by the Coaire 5 hp oilless scroll compressor, the frameless Traveler LP nitrox system is a wall mountable turnkey package that produces oxygen-rich air for the diver who wants to generate low pressure nitrox for an existing high or low pressure compressor. The oilless Traveler produces 6 CFM (170 L/min) of EANx40. The Traveler system components include: Scroll compressor, wall mount control box, floor mount reserve tank, and wall mount nitrox membrane system.

FEATURES

- Coaire 5 hp oilless scroll compressor rated at 10.3 CFM (291 L/min)
- Electric fan-cooled air aftercooler
- Nuvair LP membrane system rated:
  - 40% O_2 @ 6 CFM (170 L/min)
  - 36% O_2 @ 7.5 CFM (212 L/min)
  - 32% O_2 @ 10 CFM (280 L/min)
- 110-220V heater with thermostatic control
- BP regulator gauge
- Static mixing tube and air intake filter
- Inline Pro O_2 oxygen analyzer
- Nitrox intake hose and connections
- Hankison 16 Series LP filtration
- HP-LP regulator and reducer for O_2 analyzer
- Vertical wall mount motor control box
- 9 gallon floor mount volume tank with auto drain
- Digital hour meter

LP Nitrox Membrane System



SPECIFICATIONS

208-230V / E1 / 60 Hz*	26.5A **SKU 7051.1-LP-SCROLL**
Maximum Pressure Rating	150 psi
Membrane Input	
Operating Pressure	90-165 psi (6-11 bar)
Supply Air Volume	4-16 CFM (113-453 L/min)
Optimum Temperature	110 ±5°F (43° ±3°C)

*Inquire about 50 Hz products

An additional low pressure or high pressure compressor is required.

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LP280–LP1000 NITROX GENERATOR SILENT SERIES

FEATURES

- Silenced cabinet
- Nitrox membrane system with (2) O_2 analyzers
- EK76 or EK100 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 costs, less hassles and hazards compared to O_2 blending
- Systems to fit most HP compressors
- Rotary screw LP compressor provides quiet operation and low maintenance

SPECIFICATIONS

Model	LP280 · 10 hp (7.5 kW)	LP300 · 10 hp (7.5 kW)	LP450 · 15 hp (11 kW)	LP600 · 20 hp (15 kW)	LP750 · 20 hp (15 kW)	LP1000 · 30 hp (22 kW)
Dimensions with Dryer (L x W x H)	45.5 × 49 × 61 in (116 × 125 × 155 cm)					
Weight[1]	985 lb (447 kg)	1050 lb (476 kg)	1050 lb (476 kg)	1110 lb (503 kg)	1250 lb (567 kg)	1300 lb (590 kg)
208-230V / E1 / 60Hz	54A ·7060.1ME-EK76-DR	N/A	N/A	N/A	N/A	N/A
208-230V / E3 / 60Hz[2]	N/A	30A· 7060.2ME-EK76-DR	48A· 7061.2ME-EK76-SI	64A· 7062.2ME-EK76-SI	64A · 7063.2ME-EK100-SI	80A · 7064.2ME-EK100-SI
440-480V / E3 / 60Hz	N/A	16A· 7060.3ME-EK76-DR	21A· 7061.3ME-EK76-SI	33A· 7062.3ME-EK76-SI	33A · 7063.3ME-EK100-SI	40A · 7064.3ME-EK100-SI
380-415V / E3 / 50Hz	N/A	19A· 7060.6ME-EK76-DR	24A· 7060.6ME-EK76-SI	38A· 7062.6ME-EK76-SI	38A · 7063.6ME-EK100-SI	42A · 7064.6ME-EK100-SI
LP Compressor Capacity @ 175 psi	29 CFM (821 L/min)	29 CFM (821 L/min)	46 CFM (1303 L/min)	57 CFM (1614 L/min)	81 CFM (2294 L/min)	95 CFM (2690 L/min)
Membrane Input Operating Pressure Optimum Temperature	100–175 psi (7–12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7–12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7-12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7-12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7–12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7–12 bar) 110° ±5°F (43° ±3°C)
Rated to Supply FAD for 40% O_2 FAD for 36% O_2 FAD for 32% O_2	 10 CFM (280 L/min) 12.5 CFM (350 L/min) 17 CFM (480 L/min)	 11 CFM (311 L/min) 14 CFM (396 L/min) 19 CFM (538 L/min)	 16 CFM (450 L/min) 20 CFM (566 L/min) 27.5 CFM (779 L/min)	 22 CFM (623 L/min) 28 CFM (793 L/min) 38 CFM (1076 L/min)	 26.5 CFM (750 L/min) 33.5 CFM (948 L/min) 46 CFM (1301 L/min)	 38 CFM (1019 L/min) 49 CFM (1387 L/min) 65 CFM (1840 L/min)

[1] Model weight may vary depending on the electronic motor type. [2] Part numbers do not include 50 Hz models. For more information, please contact the Nuvair sales team.

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LP280–LP1000 WATER COOLED MARINE NITROX GENERATORS

FEATURES

- Water cooled
- Heat exchangers use fresh or seawater for air and oil cooling
- Nitrox membrane system with (2) O_2 analyzers
- EK100 rotary screw compressor
- Hankison LP filtration for membrane system
- Refrigerated air dryer for long filter life
- Manual BP regulator control for O_2% 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

OPTIONS

- Nitrox manager
- Low / High CO, CO_2, O_2 alarm or alarm/shutdown
- Remote operation capability
- Frequency drive for easy start
- Membrane system mounted to frame
- Sound shield

ADVANTAGES

- Cost-effective nitrox system
- Supply LP nitrox containing up to 40% oxygen
- Lower costs, less hassles and hazards compared to O_2 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

SPECIFICATIONS

Model	LP280 · 10 hp (7.5 kW)	LP300 · 10 hp (7.5 kW)	LP450 · 15 hp (11 kW)	LP600 · 20 hp (15 kW)	LP750 · 20 hp (15 kW)	LP1000 · 30 hp (22 kW)
Dimensions (L x W x H)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)
Weight[1]	580 lb (263 kg)	580 lb (263 kg)	620 lb (281 kg)	740 lb (335 kg)	800 lb (363 kg)	850 lb (386 kg)
208-230V / E1 / 60Hz	54A · 7060.1ME-EK76-WC	N/A	N/A	N/A	N/A	N/A
208-230V / E3 / 60Hz[2]	N/A	30A · 7060.2ME-EK76-WC	48A · 7061.2ME-EK76-WC	64A · 7062.2ME-EK76-WC	64A · 7063.2ME-EK100-WC	80A ·
440-480V / E3 / 60Hz	N/A	16A · 7060.3ME-EK76-WC	21A · 7061.3ME-EK76-WC	33A · 7062.3ME-EK76-WC	33A · 7063.3ME-EK100-WC	40A ·
380-415V / E3 / 50Hz	N/A	19A · 7060.6ME-EK76-WC	24A · 7060.6ME-EK76-WC	38A · 7062.6ME-EK76-WC	38A · 7063.6ME-EK100-WC	42A ·
LP Compressor Capacity @ 175 psi	29 CFM (821 L/min)	29 CFM (821 L/min)	46 CFM (1303 L/min)	57 CFM (1614 L/min)	81 CFM (2294 L/min)	95 CFM (2690 L/min)
Membrane Input Operating Pressure Optimum Temperature	100–175 psi (7–12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7–12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7-12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7-12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7–12 bar) 110° ±5°F (43° ±3°C)	100–175 psi (7–12 bar) 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)	22 CFM (623 L/min)	26.5 CFM (750 L/min)	38 CFM (1019 L/min)
FAD for 36% O_2	12.5 CFM (350 L/min)	14 CFM (396 L/min)	20 CFM (566 L/min)	28 CFM (793 L/min)	33.5 CFM (948 L/min)	49 CFM (1387 L/min)
FAD for 32% O_2	17 CFM (480 L/min)	19 CFM (538 L/min)	27.5 CFM (779 L/min)	38 CFM (1076 L/min)	46 CFM (1301 L/min)	65 CFM (1840 L/min)

[1] Model weight may vary depending on the electronic motor type. [2] Part numbers do not include 50 Hz models. For more information, please contact the Nuvair sales team.
Water cooled compressors require a water flow of 4ñ10 gallons/minute. Water pump not included.

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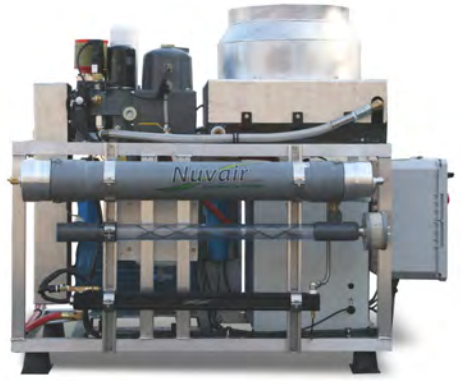
LP280–LP1000 AIR COOLED MARINE NITROX GENERATORS

FEATURES

- Air cooled
- Nitrox membrane system with (2) O_2 analyzers
- EK76 rotary screw compressor
- Hankison LP filtration for membrane system
- Refrigerated air dryer for long filter life
- Manual BP regulator control for O_2% 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
- Flange for connecting ducting to remove hot air
- Membrane system mounted to frame

OPTIONS

- Nitrox manager
- Low / high CO, CO_2,O_2 alarm or alarm/shutdown
- Remote operation capability
- Frequency drive for easy start
- Wall mounted membrane system
- Sound shield



ADVANTAGES

- Cost-effective nitrox system
- Supply LP nitrox containing up to 40% oxygen
- Lower costs, less hassles and hazards compared to O_2 blending
- Systems to fit most HP compressors
- Soft start for reduced amperage draw on start

SPECIFICATIONS

Model	LP280 · 10 hp (7.5 kW)	LP300 · 10 hp (7.5 kW)	LP450 · 15 hp (11 kW)	LP600 · 20 hp (15 kW)	LP750 · 20 hp (15 kW)	LP1000 · 30 hp (22 kW)
Dimensions (L x W x H)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)	27 × 41.5 × 40.5 in (68.6 × 105 × 103 cm)
Weight[1]	580 lb (263 kg)	580 lb (263 kg)	620 lb (281 kg)	740 lb (335 kg)	800 lb (363 kg)	850 lb (386 kg)
208-230V / E1 / 60Hz	54A · 7060.1ME-EK76-AC	N/A	N/A	N/A	N/A	N/A
208-230V / E3 / 60Hz[2]	N/A	30A · 7060.2ME-EK76-AC	48A · 7061.2ME-EK76-AC	64A · 7062.2ME-EK76-AC	64A · 7063.2ME-EK100-AC	80A · 7064.2ME-EK100-AC
440-480V / E3 / 60Hz	N/A	16A · 7060.3ME-EK76-AC	21A · 7061.3ME-EK76-AC	33A · 7062.3ME-EK76-AC	33A · 7063.3ME-EK100-AC	40A · 7064.3ME-EK100-AC
380-415V / E3 / 50Hz	N/A	19A · 7060.6ME-EK76-AC	24A · 7060.6ME-EK76-AC	38A · 7062.6ME-EK76-AC	38A · 7063.6ME-EK100-AC	42A · 7064.6ME-EK100-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)	81 CFM (2294 L/min)	95 CFM (2690 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)	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)	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)	22 CFM (623 L/min)	26.5 CFM (750 L/min)	38 CFM (1019 L/min)
FAD for 36% O_2	12.5 CFM (350 L/min)	14 CFM (396 L/min)	20 CFM (566 L/min)	28 CFM (793 L/min)	33.5 CFM (948 L/min)	49 CFM (1387 L/min)
FAD for 32% O_2	17 CFM (480 L/min)	19 CFM (538 L/min)	27.5 CFM (779 L/min)	38 CFM (1076 L/min)	46 CFM (1301 L/min)	65 CFM (1840 L/min)

[1] Model weight may vary depending on the electronic motor type. [2] Part numbers do not include 50 Hz models. For more information, please contact the Nuvair sales team.

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MCH60 TOUCHSCREEN ENCLOSED & SILENCED

The Nuvair MCH60-PLC high-pressure breathing air compressor is equipped with a human machine interface (HMI) touchscreen system controller that allows users to monitor compressor activity and identify alarm events. Designed with two (2) Coltri MCH30 compressor blocks, the MCH60 automatically designates a "lead" and "lag" compressor and changes this designation every seven (7) days, making this system the perfect solution for critical applications. Combined charging rate for the MCH60-PLC is 40.8 SCFM (1154 L/min).

SKU 8059.2

SYSTEM COMPONENTS

- Two (2) Coltri MCH30 High Pressure Air Compressors
  - Each Compressor: 4 Cylinder, 4 Stage, Air Cooled
- Nuvair PLC & Touchscreen Controller
- Digital Multigas Analyzer: CO / Moisture / CO_2 / VOC
- Hour Meter
- Electric Motor: 208-230V, 440V, or 460V; 3 Phase, 50Hz or 60Hz
- Interstate Pressure Gauges
- (3) Condensate Separators on Each Compressor
- Large Stainless Steel Interstage Cooling Tubes
- Low Pressure Oil Pump with Filter
- Oil Level Sight Gauge and Oil Pressure Gauge
- Automatic Condensate Drains
- Loadless Start
- Low Oil Shutdown Switch
- Final Stage Head
- High Temp Switch set at 350°F
- (4) CAN-35 Filtration Towers
  - (3) Dryer Filter Elements
  - (1) Triplex Filter Element
  - 130,000 cu ft
- Aluminum Frame with Isolation Vibration Mounts

SPECIFICATIONS

Compressor Models	Two (2) Coltri MCH30
Charging Rate Filling an 80 cu ft tank from 500 psi	20.4 SCFM (577 L/min) × 2 Total Charging Rate: 40.8 SCFM (1154 L/min)
Maximum Operating Pressure	6000 psi (414 bar)
Pumping Unit RPM	1100
Number of Stages	4 × 2
Dimensions (H × W × L)	71" (180cm) × 37.2" (94cm) × 67.8" (172cm)
Weight	~1425 lb (646 kg)
Lubrication	Pressure Lubrication, capacity 1.2 gal (4.5L) × 2

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EK76-Q325 ELECTRIC

The Nuvair EK76-Q325E electric powered nitrox system is built for the direct surface supply of air or nitrox to multiple divers. Compressors can be used independently to provide low pressure (LP) air or together to deliver constant flow of 22-40% enriched air nitrox. Frames are built with marine grade 6061 aluminum and have a stainless steel compressor/engine plate. The system is supplied in a turnkey package ready to support divers and has two oxygen analyzers for easy and accurate operation. Produces a constant flow of up to EANx40 at 18.6 CFM @ 175 psi (527 L/min @ 12 bar).

FEATURES

- Rigid 2" square aluminum frame & belt guard
- Stainless steel 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 @ 200 psi
- Refrigerated dryer
- Two air after coolers

OPTIONS

- 60-gallon volume tank
- Low/high O_2% shutdown with alarm
- CO Analyzer with Alarm
- CO_2 Analyzer with Alarm
- Produce LP air at 77 CFM @ 175 psi
- Stainless steel volume tank

NITROX MEMBRANE SYSTEM

- Pro O_2 Analyzer
- Pro O_2 Remote Analyzer with in-line sensor
- Membrane rated up to 20 CFM @ 40% O_2
- Automatic thermostatic controlled heater
- BP air flow regulator & O_2 % control
- Air intake filter & static mixing tube
- Synthetic food-grade compressor lubricant for nitrox breathing air applications
- Mix accurate to within 1/10th %

SPECIFICATIONS

- LP Air Filtration: Hankison Series 20
  - Auto drain/DP gauges
  - Coalescing 1.0 micron
  - Fine polishing .01 micron
  - Oil vapor removal .003 PPM
  - Diver LP air filtration
- Supplying Grade D air
- EK76 – rated to 59 CFM @ 175 psi
- Quincy Q325 – rated to 18.6 CFM @ 200 psi dual control with head unloaders
- 30-gallon air tank
- Weight 1460 lbs (663 kg)
- (L x W x H) 38 in x 76 in x 66 in (97 x 193 x 168 cm)
- WEG 30 hp
- 80 amp draw @ 208 V

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LP–LP12
NITROX GENERATOR

FEATURES

- Rigid 2" square aluminum frame and belt guard
- 1/4" stainless steel compressor mounting plate
- Vibration mounts below compressor plate & fram
- Two (2) air aftercoolers
- Low pressure multistage air filtration system
- Auto drains / DP gauges
- Coalescing 1.0 micron
- Oil vapor removal .003 PPM
- Hour meter
- LP dual control head unloaders
- Electric start
- 12-volt battery with box
- 20 amp charging system
- 600 watt inverter

OPTIONS

- Diesel Engine (~27 hp)
- Electric Motor (~15 hp 3-phase)
- One (1) 60-gallon volume tank
- High temperature shutdown or alarm
- Low / High O_2% shutdown or alarm
- CO Analyzer with alarm and shutdown
- CO_2 Analyzer with alarm

Gasoline engine powered version shown. Remote air intakes not pictured.

SPECIFICATIONS*

	SKU 7068
Engine	Gasoline
Engine Power	±20 hp (±15 kW)
Max Operating Pressure	150 psi
Nitrox Produced	36% at 12 CFM @150 psi (340 L/min)
Air Tank	30 gal steel volume tank
Fuel Tank	6.5 gal
Air Quality	Grade D
Dimensions (L x W x H)	56 x 23 x 57 in (135 x 58 x 145 cm)
Weight	624 lb (283 kg)

*Specifications are for gasoline-powered model. Inquire about diesel or electric.

MEMBRANE SYSTEM

- To (2) Pro O_2 Analyzers, one with inline sensor
- Membrane rated up to 12 CFM @ 36% O_2
- 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%

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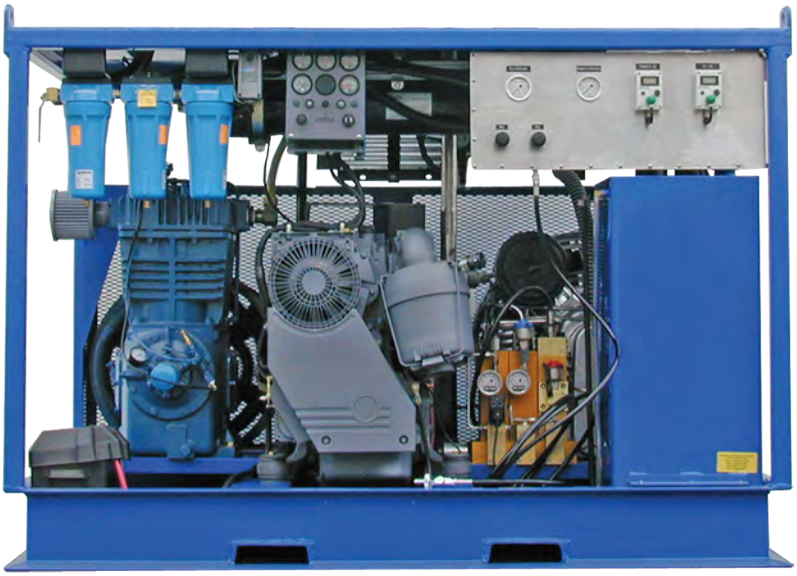
QUINCY 390 LP/HP NITROX SYSTEM

Complete state-of-the-art LP/HP Nitrox Generating System. The 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% @ 26.4 SCFM.

FEATURES

- Coltri high pressure MCH36, 4-stage, 4-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 microns
  - Oil vapor removal 0.003 PPM
- Supplying LP Grade D and HP Grade E air / nitrox
- LP back pressure regulator for O_2% adjustment
- Fuel - 50 gallons
- Duetz 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



NITROX MEMBRANE SYSTEM

- (2) Pro O_2 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

OPTIONS

- Quincy 370 with 21 SCFM HP compressor
- EK76 Rotary Screw Compressor (no volume tank required)
- Canvas cover
- Refrigerated dryer and separator
- CO Alarm Analyzer with shutdown capability
- CO_2 Alarm Analyzer with shutdown capability
- O_2 Alarm Analyzer with shutdown capability
- Moisture Alarm Analyzer with shutdown capability
- Certified lfting eyes

SPECIFICATIONS

	SKU: 7058DKU
Dimensions (L x W x H)	54 x 86 x 60 in (137 x 218 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)

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QUINCY 390 | MCH36
ELECTRIC NITROX SYSTEM

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

FEATURES

- Coltri high pressure MCH36, 4-stage, 4-cylinder, air cooled, oil pressure lubricated compressor
- HP compressor with 20 hp motor
  - Nitrox up to 3600 psi @ 26.4 SCFM
  - Air up to 5000 psi @ 26.4 SCFM
- 60,000 cu ft of HP filtration Grade E
- HP auto condensate drains
- Quincy 390, 2-stage, pressure lubricated, compressor with low oil carry over rings
- LP air filtration: Hankison Series 24
  - Auto drains/DP gauges
  - Coalescing 1.0 micron
  - Fine polishing .01 micron
  - Oil vapor removal .003 PPM
- LP back pressure regulator for O_2% adjustment
- Air tank - 60-gallon
- Supplying Grade D air
- LP compressor – 20 hp - 69 CFM @ 175 psi
- HP and LP Motors are 3-phase 208-230 or 440-480 V, 50/60 Hz with motor starter and on/off switch.
- 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
- EK76 Rotary Screw Compressor (no volume tank required)
- Canvas cover
- Refrigerated dryer and separator
- CO Alarm Analyzer with shutdown capability
- CO_2 Alarm Analyzer with shutdown capability
- O_2 Alarm Analyzer with shutdown capability
- Moisture Alarm Analyzer with shutdown capability
- Pro 4 Warn

NITROX MEMBRANE SYSTEM

- (2) Pro O_2 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

Dimensions (L x W x H)	80 x 48 x 57 in (203.2 x 121.9 x 144.8 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
Compressors	
LP Compressor	Capacity @ 175 psi 69 CFM (1954 L/min)
HP Compressor	Capacity @ 3600 psi 26.4 SCFM (702 L/min)
Volume Tank Capacity	60 gal (227 L)

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CHAMPION R15
LP COMPRESSOR PACKAGES

Champion R15 low pressure compressor with loadless start, head unloaders and hour meter is driven by an electric motor, gas or diesel engine. The Champion R15 package comes standard with an over pressure valve, drain valve, large air after cooler, check valve, gate valves and plumbing. The optional frames are made with 6061 aluminum and have an enclosed bottom, four point lifting or handles and wheels that make them easy to move around the job. All equipment is inset; compressor and engine have independent vibration absorption mounts and are mounted on an aluminum plate.

Champion R15 Tank Mount
SKU: LP-R15-30T

R15 with Volume Tank and Inset Frame
Wheelbarrow Style Frame Shown
SKU: LP-R15HL

Champion R15 Inset Frame Package
Custom Model Shown
SKU: LP-R15-DY

FEATURES

- LP-R15 compressor block
- Aluminum belt guard
- Hour meter
- Over pressure valve
- 12 volt enclosed battery (diesel only)
- Surge tank (not available in loaded versions)

OPTIONS

- Aluminum frame: with enclosed bottom and center or four point lifting eyes, handles & wheels
- Stainless steel package
- 30 gallon volume tank (standard with loaded models)
- Breathing air filtration
- Yanmar diesel 9.3 hp (6.9 kW) electric start with a 1.24 gallon fuel tank
- Kohler diesel 13 hp (9.7 kW)
- Honda gas 11.7 hp (8.7 kW)
- Water Cooled

SPECIFICATIONS

	R15 Gas	R15 Honda Gas Loaded	R15 10 hp Yanmar Diesel
Part Number	SKU: LP-R15-30T	SKU: LP-R15HL	SKU: LP-R15-DY
Dimensions	38 x 28 x 46 in (97 x 71 x 117 cm)	45 x 28 x 61 in (114 x 71 x 155 cm)	50 x 32 x 44 in (127 x 81 x 112 cm)
Weight	459 lbs (209 kg)	610 lbs (277 kg)	465 lbs (211 kg)
Tank Size	30 gallon tank	30 gallon tank	N/A
FAD @ 170 psi	22 CFM	22 CFM	19.5 CFM
Features		Breathing air filtration Frame with components inset	Frame with components inset

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QUINCY 5120 ELECTRIC WITH 120 GAL VOLUME TANK

Made for the production of low pressure industrial or breathing air, the tank-mounted Quincy 5120 electric drive is a versatile compressor package that produces 87 CFM (2464 L/min) @ 175 psi (12 bar). The basic package includes a 5120 compressor block with head unloaders, a TEFC 25 hp Motor, NEMA 4 starter box, belt guard, and a 120-gallon volume tank (gas receiver). Product image includes the following components/options: TEFC motor, NEMA 4 starter, breathing air filtration pack, and diver manifold..

FEATURES

- Premium efficiency reliable electric motor
- Low oil carry over compressor rings
- LVD control
- Air cooler & ASME rated 120-gallon volume tank (gas receiver)
- Simple to operate, reliable and versatile

OPTIONS

- Low pressure regulator for downstream pressure
- CO and/or CO2 analyzers
- Audible and visual alarms for high temperature, low oil and carbon monoxide
- Shutdown for high temperature, low oil, low pressure, and carbon monoxide
- Air filtration to 0.003 ppm oil vapor
- 4 Diver manifold
- Motor Controller Star Delta or Soft Starter in 4X box
- Aftercooler
- 30 hp motor @ 95 CFM (2690 L/min)
- 200 gallon volume tank (gas receiver)
- California certified tank available
- TEFC 50/60Hz capable motor
- 250psi max

SPECIFICATIONS

	Q-5120-E-120T
Flow Rate	87 CFM @ 175 psi
Engine/Motor	230 / 415 / 460 V / E3 / 50 or 60 Hz
Engine Power	25 hp (18.6 kW)
Max Operating Pressure	200 psi (14 bar)
RPM	951
Number of Stages	2
Lubrication	Pressure lubrication
Air Quality	Grade D breathing air
Dimensions (L x W x H)	73 x 34 x 63 in (185 x 86 x 160 cm)
Weight	2060 lbs (934 kg)

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MCH6 ICON HP SERIES

The next generation of lightweight and compact compressors is here! The Coltri ICON series of compressors meets the needs of high-pressure breathing or industrial air for divers, firefighters, paintballers, PCP air gun enthusiasts, and more. Electric- or gasoline-powered.

FEATURES

- Excellent portability
- 4500 psi (310 bar) maximum pressure
- Four stage compressor block
- CGA Grade E breathing air filtration
- Hour meter
- Choice of Fill Devices:
  - INT / Yoke
  - DIN 200-300 bar
  - DIN 200 bar
  - SCBA
  - Paintball

OPTIONS

- Stainless steel frame.
- Inverter drive
- Remote start/stop switch
- Automatic condensate drains
- Visual CO/moisture indicator
- Weatherproof dock box

Coltri MCH6 ICON Series

[1]Based on 80 cu ft cylinder from 500 to 3000 psi.

[2]Part numbers reflect 60 Hz, inquire about additional models.

[3]All gasoline-powered breathing air compressors are equipped with Predator® engines.

SPECIFICATIONS

	MCH6/3E	MCH6/3.5E	MCH6/3.5G
Fill Time[1]	Approx 23 min	Approx 19 min	Approx 19 min
Charging Rate[1]	3.4 SCFM (96 L/min)	4.2 SCFM (119 L/min)	4.2 SCFM (119 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	5.5 hp (4.1 kW)[3] **SKU 8013**
115 V / E1 / 60 Hz[2]	29A 3 hp (2.2 kW) **SKU 8015**	N/A	N/A
230 V / E1 / 60 Hz[2]	17A 3 hp (2.2 kW) **SKU 8014.1**	N/A	N/A
230 V / E3 / 60 Hz[2]	N/A	12A 4 hp (3 kW) **SKU 8016.2**	N/A
400 V / E3 / 50 Hz	N/A	6.7A 4 hp (3 kW) **SKU 8016.3**	N/A
440 V / E3 / 60 Hz[2]	N/A	6.4A 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 14 x 15 in (79 x 36 x 38 cm)
Weight	90 lb (41 kg)	88 lb (40 kg)	84 lb (38 kg)
Lubrication	Splash lubrication, capacity 12 oz.		
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 –EN12021		

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MCH6 COMPACT HP

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

FEATURES

- Excellent portability
- 4500 psi max pressure
- Grade E breathing air filtration
- Hour meter standard on gas unit
- Protective frame

ADVANTAGES

- 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/E	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 (80 L/min)	3.5 CFM (100 L/min)	3.5 CFM (100 L/min)
Motor Options	Single phase electric	Three-phase electric	Honda Gas SKU: 8013-C
115 V / E1 / 50 or 60 Hz**	28 amps SKU: 8015-C	N/A	N/A
230 V / E1 / 50 or 60 Hz**	14 amps SKU: 8014.1-C	N/A	N/A
230 V / E3 / 50 or 60 Hz**	N/A	11 amps SKU: 8016-C	N/A
Driven By	3 hp (2.2 kW)	4 hp (3 kW)	5.5 hp (4.1 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 15 x 19 in (74 x 38 x 48 cm)	29 x 15 x 19 in (74 x 38 x 48 cm)	29 x 15 x 19 in (74 x 38 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. **Part number reflects 60 Hz model. Inquire about 50 Hz model.

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SMART ELECTRIC HP

The Smart 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 compressor very compact.

FEATURES

- 5000 psi max pressure
- Grade E filtration
- (2) Fill whips
- Electric motor
- Stainless steel intercoolers

OPTIONS

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

SPECIFICATIONS

	MCH8	MCH11	MCH13	MCH16
Fill Time*	~19 minutes	~14 minutes	~11 minutes	~9 minutes
Charging Rate*	5.3 SCFM (141 L/min)	6.8 SCFM (200 L/min)	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)
CFM FAD	4.2 CFM (119 L/min)	5.6 CFM (159 L/min)	7 CFM (200 L/min)	9.4 CFM (266 L/min)
Motor Options	Single-phase	Single-phase	Single or three-phase	Single or three-phase
230 V / E1 / 60 Hz**	24A SKU 8018.1-EF	26A SKU 8017.1-EF	N/A	35A SKU 8022.1-EF
230 V / E1 / 50 Hz**	24A SKU 8018.4-EF	26A SKU 8018.4-EF	N/A	N/A
208-230 V / E3 / 60 Hz**	N/A	N/A	14A SKU 8019.2-EF	22A SKU 8022.2-EF
380-415 V / E3 / 50 Hz	N/A	N/A	8A SKU 8019.6-EF	14A SKU 8022.6-EF
440-480 V / E3 / 60 Hz	N/A	N/A	8A SKU 8019.3-EF	14A SKU 8022.3-EF
Driven By	4 hp (3 kW)	5 hp (4 kW)	5.5 hp (4 kW)	7.5 hp (5.5 kW)
Max Operating Pressure	5000 psi (345 bar)	5000 psi (345 bar)	5000 psi (345 bar)	5000 psi (345 bar)
Number of Stages	3	3	3	3
Number of Fill Hoses	2	2	2	2
Condensate Drain	Manual	Manual	Manual	Manual
Sound Level @ 3 Meters	81 dB	81 dB	81 dB	81 dB
Weight	205 lb (93 kg)	220 lb (100 kg)	210 lb (95 kg)	232 lb (105 kg)
Dimensions (L x W x H)	40 x 19 x 28 in (100 x 46 x 70 cm)			
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.
**Part number reflects 60 Hz model; inquire about 50 Hz model. Tropical Plus block available in Nuvair frame.

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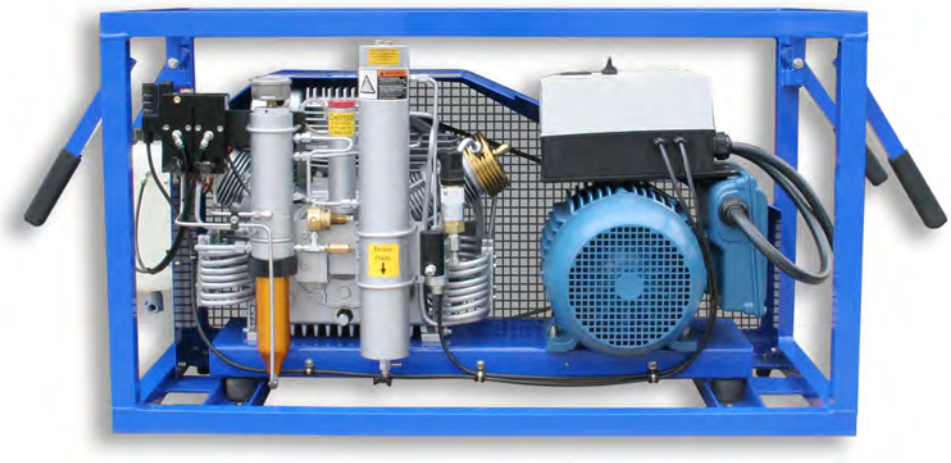
MINI TECH ELECTRIC HP

The Coltri/Nuvair Mini Tech high-pressure electric powered air compressor can be used in a wide variety of continuous-duty applications including breathing air and industrial air use. Compact in design with foldaway handles, the Mini Tech is portable and easy to lift. On-board Grade E air purification comes standard for breathing air quality output. With several options available to meet your specific needs, the portability and dependability of the electric powered HP Mini Tech MCH13 or MCH16 makes this the compressor for you. Delivers up to 5000 psi (345 bar) at 11.3 SCFM (320 L/min).



FEATURES

- 5000 psi (345 bar) maximum pressure
- Grade E breathing air filtration
- Two (2) fill whips
- Stainless steel intercoolers
- Four (4) foldaway lifting handles
- All important parts are protected inside frame
- Heavy duty vibration mounts
- Powder coated 6061 marine grade aluminum frame

SPECIFICATIONS

	MCH13	MCH16
Fill Time*	~ 11 minutes	~ 9 minutes
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 and three-phase	Single and three-phase
230 V / E1 / 50 or 60 Hz	23A SKU 8040.1**	30.3A SKU 8037.1**
230 V / E3 / 50 or 60 Hz	13.1A SKU 8040.2**	19.4A SKU 8037.2**
440 V / E3 / 50 or 60 Hz	6A SKU 8040.3**	9A SKU 8037.3**
Motor	5 hp (3.7 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)	45.5 × 22.25 × 25.75 in (116 × 57 × 65 cm)	
Weight	320–421 lb (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.
** Part number reflects 60 Hz models; inquire about 50 Hz models.

OPTIONS

- Motor starter
- Automatic condensate drains
- Pressure switch
- Hour meter
- High temperature shutdown
- Upgraded filtration
- Low oil shutdown
- Tropical Plus block with oil pump
- Interstage pressure gauges
- Stainless steel frame
- Lifting eyes
- Visual CO / moisture indicator

MCH13 · MCH16 VERTICAL ELECTRIC

This continuous-duty compressor delivers 8.4–11.3 SCFM (238–320 L/min). Available with a standard or Tropical Plus (TP) block, with an option for the Tropical Plus Superdry (TPS) block upgrade, the Vertical Electric is available in four models. Compact in design with a powder coated frame that has all equipment inset, the Nuvair Vertical Electric is unsurpassed in quality, reliability and price.

FEATURES

- 5000 psi (345 bar) or 6000 psi (414 bar)
- Three cylinder, three stage, air-cooled
- Hour meter
- Interstage pressure gauges
- Two (2) large condensate separators
- Large stainless steel interstage cooling tubes
- Splash lubricated with oil sight gauge
- Automatic condensate drains
- NEMA 4X enclosed electric box
- Low oil shutdown switch

OPTIONS

- Water cooling
- Stainless steel package
- Dial-a-pressure shutdown
- Electronic moisture monitor
- SEP-15 & CAN-35 filtration and air/water separation systems
- Remote fill panel
- Frame mount with storage
- Powder coated frame
- Tropical Plus Superdry (TPS) block

Powder coated option shown

SPECIFICATIONS

	MCH13	MCH13 TPS	MCH16	MCH16 TPS
Fill Time*	~11 minutes	~11 minutes	~9 minutes	~9 minutes
Charging Rate*	8.4 SCFM (238 L/min)	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)	11.3 SCFM (320 L/min)
CFM FAD	7 CFM (200 L/min)	7 CFM (200 L/min)	9.4 CFM (266 L/min)	9.4 CFM (266 L/min)
230V / E1 / 60Hz	25A SKU 8060.1	25A SKU 8060.1-TPS	34A SKU 8061.1	34A SKU 8061.1-TPS
208-230V / E3 / 60Hz	14A SKU 8060.2	14A SKU 8060.2-TPS	20A SKU 8061.2	20A SKU 8061.2-TPS
440-480V / E3 / 60Hz	7A SKU 8060.3	7A SKU 8060.3-TPS	10A SKU 8061.3	10A SKU 8061.3-TPS
380-415V / E3 / 50Hz	SKU 8060.6	SKU 8060.6-TPS	SKU 8061.6	SKU 8061.6-TPS
Driven By	5.5 hp (4 kW)	5.5 hp (4 kW)	7.5 hp (5.5 kW)	7.5 hp (5.5 kW)
Max Operating Pressure	5000 psi (345 bar)	5000 psi (345 bar)	5000 psi (345 bar)	6000 psi (414 bar)
RPM	1200	1200	1450	1450
Number of Stages	3	3	3	3
Number of Fill Hoses	2	2	2	2
Filtration†	26,000 cu ft @ 80°F	26,000 cu ft @ 80°F	26,000 cu ft @ 80°F	26,000 cu ft @ 80°F
Sound Level @ 3 Meters	81 dB	82 dB	82 dB	82 dB
Dimensions (L × W × H)	32 × 36 × 45 in (91 × 91 × 114 cm)			
Weight	340–430 lb (186–195 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.

† If the compressor is located in an area where there is high humidity and high heat, the life of all filtration elements may be as little as 35% of rated operating capacity.

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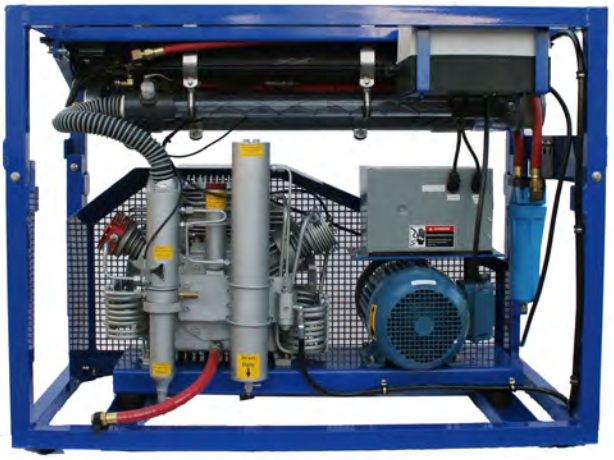
ELEMENT HP

The Nuvair Element HP makes high pressure nitrox (22–40% oxygen) from an existing low-pressure (LP) or high-pressure (HP) air source for nitrox tank fills up to 3600 psi (250 bar) or air fills up to 4500 psi (310 bar). Although it is described as the "nitrox compressor," it can also be used to pump air. The Element HP allows for efficient and cost effective nitrox production using diesel, gas, hydraulic, or electric power, without the hazards or expense of blending with stored high-pressure oxygen (O_2). The Element HP has LP filtration and an air heater to clean and heat the air delivered to it. The two most common sources are an LP compressor (LP supply option) or HP air storage tanks (HP supply option). Information on the optional Element HP compressor packages is provided in the Element HP Nitrox System User Manual.



FEATURES

- 10 CFM Nitrox Membrane System with two (2) O_2 Analyzers
- Electric (single- / three-phase), Honda gas or Yanmar diesel
- Portable with four (4) integral lifting handles
- HP compressor: Pump air to 4500 psi; nitrox to 3600 psi with fill time of 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

SPECIFICATIONS

230 V / E1 / 60 Hz	39A SKU 7053-16.1HPF
230 V / E3 / 60 Hz	25A SKU 7053-16.2HPF
400 V / E3 / 50 Hz	16A SKU 7053-16.6HPF
400 V / E3 / 60 Hz	11A SKU 7053-16.3HPF
Yanmar Diesel	SKU 7053.16HPF-D (Electric start)
Honda Gas	SKU 7053HPF-G (Electric start)
Required LP Supply @ 175 psi	Requires 23 CFM (665 L/min)
Membrane Input	
Operating Pressure	90–165 psi
Supply Air Volume	13–25 SCFM (354–708 L/min)
Optimum Temperature	110±5°F (43°±3°C)
HP Nitrox Compressor	
Charging Rate*	9 SCFM (265 L/min)
Horsepower – Electric	7.5 hp (5.5 kW)
Horsepower – Gas	9–11 hp (6.6–8.3 kW)
Horsepower-Diesel	9 hp (6.6 kW)
Dimensions (L x W x H)	46 × 25.5 × 35 in (117 × 65 × 85 cm)
Weight	352–450 lb (160–177 kg)

*Based on 80 cu ft cylinder from 500 to 3000 psi.
Specifictions vary depending on motor or engine used to drive compressor.

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MCH22 · MCH30 · MCH36
VERTICAL ELECTRIC

After considerable research, development and testing, Nuvair is proud to offer a continuous-duty 15.8-27 SCFM (447-764 L/min) charging rate compressor. Available in three models with 10,15 or 20 hp (7.5, 11, or 15 kW) electric motors, the Vertical Electric is unsurpassed in quality, reliability and price. Compact in design with a powder-coated aluminum frame; 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 stainless steel interstage cooling tubes
- Pressure lubricated oil pump with filter, oil sight gauge and oil pressure gauge
- Automatic condensate drains
- NEMA 4X enclosed electric box
- Low oil shutdown switch
- High temp switch set at 350°F
- Pressure shutdown switch
- Triple auto drain MCH22-36 vertical open 110 V control
- SEP-15 & CAN35 air water filtration system 6000 psi

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 (374 L/min)	17 CFM (481 L/min)	22.5 CFM (637 L/min)
Motor	Single or three-phase electric	Three-phase electric	Three-phase electric
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
Max Operating 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	640 lb (290 kg)	650 lb (294 kg)	700 lb (318 kg)
Lubrication	Pressure lubrication, capacity 4 L		
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021		

*Contact a salesperson for information on 50 Hz compressors not listed. **Based on 80 cu ft cylinder from 500 to 3000 psi.

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MCH22 · MCH30 · MCH36 · MCH45
ENCLOSED & SILENCED VERTICAL

High volume facilities where sound may be an issue should consider our Enclosed & Silenced line of compressors that deliver up to 32 SCFM (906 L/min) at 6000 psi (414 bar). Unsurpassed in quality, reliability and price, the Enclosed & Silenced package is designed for high use in work areas where noise cannot be tolerated. Available in four models: MCH22, MCH30, MCH36, and MCH45.

FEATURES

- Enclosed configuration for reduced sound levels
- Dial-a-Pressure automatic shutdown
- Soft start (star delta) electric switchboard with hour meter and emergency stop button
- Automatic condensate drains and condensate test button
- Phase controller (reverse rotation) recognition
- Automatic shutdown for high temperature and low oil
- Stage and lubricant oil pressure gauges
- Stainless steel intercoolers with large condensate separators
- 60,000 cu ft dual filtration (CGA Grade E)
- Four (4) fill whips

OPTIONS

- Visual CO / moisture indicator
- High temp alarm with shutdown
- Nuvair Pro CO analyzer
- Nuvair Pro H_2O monitor
- Filtration upgrade to 90,000 cu ft
- Refrigerated air dryer (as illustrated)
- 7000 psi (482 bar) upgrade

SPECIFICATIONS

	MCH22	MCH30	MCH36	MCH45
Fill Time**	~ 5 minutes	~ 4 minutes	~ 3 minutes	~ 2.5 minutes
Charging Rate**	15.8 SCFM (447 L/min)	20.4 SCFM (577 L/min)	27 SCFM (764 L/min)	32 SCFM (906 L/min)
CFM FAD	13.2 CFM (374 L/min)	17 CFM (481 L/min)	22.5 (637 L/min)	26.5 (750 L/min)
Motor	Single and three-phase	Three-phase	Three-phase	Three-phase
208-230V / E1 / 60Hz	46A 10 hp/7.5 kW SKU 8052.1	N/A	N/A	N/A
208-230V / E3 / 60Hz	28A 10 hp/7.5 kW SKU 8052.2*	31A 15 hp/11 kW SKU 8043.2*	48A 20 hp/15 kW SKU 8045.2*	53.7A 20 hp/15 kW SKU 8056.2*
380-415V / E3 / 50Hz	17A 10 hp/7.5 kW SKU 8052.6	18A 15 hp/11 kW SKU 8043.6	29A 20 hp/15 kW SKU 8045.6	31A 20 hp/15 kW SKU 8056.6
440-480V / E3 / 60Hz	17A 10 hp/7.5 kW SKU 8052.3*	16A 15 hp/11 kW SKU 8043.3*	25A 20 hp/15 kW SKU 8045.3*	28.5 20 hp/15 kW SKU 8056.3*
Working Pressure	6000 psi (414 bar)	6000 psi (414 bar)	6000 psi (414 bar)	6000 psi (414 bar)
RPM	880	1100	1300	1300
Number of Stages	4	4	4	4
Number of Fill Hoses	4	4	4	4
Condensate Drain	Automatic	Automatic	Automatic	Automatic
Fill Pressure Stop	Automatic	Automatic	Automatic	Automatic
Sound Level	70 dB	70 dB	70 dB	70 dB
Dimensions (L × W × H)	31.9 × 49 × 69 in	31.9 × 49 × 69 in	31.9 × 49 × 69 in	31.9 × 49 × 69 in
Weight	926 lb (420 kg)	1126 lb (511 kg)	1210 lb (549 kg)	1210 lb (549 kg)
Lubrication	Pressure lubrication, capacity 4 L			
Air Quality	DIN 3188 – CGA Grade E – NFPA 1500 – EN12021			

*Contact a salesperson for information on 50 Hz compressors not listed. **Based on 80 cu ft cylinder from 500 to 3000 psi.

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MCH36D KUBOTA DIESEL

Nuvair's flagship open horizontal and continuous-duty commercial high-pressure compressor line utilizes the Coltri MCH 36 pumping unit. The compressor can pump up to 27 SCFM at 6000 psi when charging cylinders. The Coltri compressor block and Kubota diesel engine are mounted onto a vibration isolated steel base frame that is placed into a powder-coated steel crash frame with belt guard.

FEATURES

Compressor

- 4 cylinder, 4-stage, air cooled
- Interstate pressure gauges
- (2) Large interstage condensate separators
- Large stainless steel interstage cooling tubes
- Low pressure oil pump with filter
- Oil level sight gauge and oil pressure gauge
- Automatic condensate drains
- Low oil shutdown switch
- High temp switch
- SEP-15 high pressure moisture separator
- Triple filter filtration (90,000 cu ft)
- 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

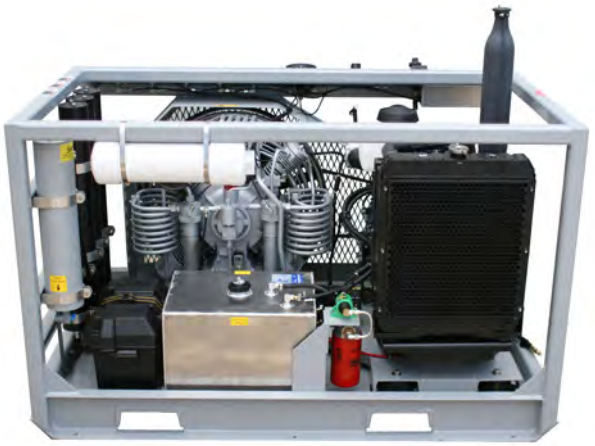
- Kubota D1803 diesel
- Hayes bearing support block
- Hour meter
- Loadless start

Digital Engine Control Panel

monitors and displays engine oil pressure, coolant temperature, engine RPM, engine hours, battery voltage, fault indication, and manual throttle control. Engine shuts down when safety switch activates.

OPTIONS

- Certified lifting eyes
- Nuvair Pro CO Analyzer with audible alarm
- Diester based lubricant
- Moisture analyzer
- Quad filtration (120,000 cu ft)
- Upgrade to 6000 psi (414 bar)



SPECIFICATIONS

	SKU 8048DK
Fill Time*	~ 3 minutes
Charging Rate*	27 SCFM (637 L/min)
CFM FAD	22.5 CFM (637 L/min)
Max Operating Pressure	5000 psi (345 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)	64 x 44 x 42 in (163 x 112 x 107 cm)
Weight	1600 lb (726 kg)

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

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O_2 QUICKSTICK

Simple Oxygen Analysis for *Every Nitrox Diver*

The Nuvair O_2 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 O_2 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.

The O_2 Quickstick's dome-shaped end cover is designed to restrict gas flow to the sensor. If the tank valve and analyzer are not properly operated, sensor damage or false readings can occur. Inaccurate gas analysis can lead to serious personal injury or death. Consult the O_2 Quickstick User Manual for proper operation.

SPECIFICATIONS

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%
Sensor Type	Oxygen - 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 (22.9 cm) L x 1.5 in (3.8 cm) W
Weight	21.1 oz (600 g)
Warranty	0 – 12 Months Free replacement 13 – 18 Months 50% off replacement 19 – 24 Months 25% off replacement

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

SKU 9456

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

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PRO O_2 ALARM ANALYZER SERIES

The Pro O_2 Alarm is designed for in-line measurement of oxygen in a mixed gas. The alarms featured in this series include two audible alarms for high and low percentages, and an analog output for shutting down your compressor automatically. The Pro O_2 Alarm Series of analyzers are compatible with nitrox, heliox and trimix. Some versions available with optional FAILSAFE and SMART START modules. (To view the standard, non-alarming **Pro O2 Analyzer** Series brochure, please click here.)

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. To produce this flow, a flow restrictor and regulator may be required.

Panel Mount Remote

SKU 9612R

Handheld

SKU 9611

Panel Mount

SKU 9612

SPECIFICATIONS*

Flow Rate	0.5–5 L/min
Resolution	±0.1% oxygen
Repeatibility	±1% volume oxygen @ 100% oxygen, applied for 5 minutes
Linearity	±1% over full scale if sensor well calibrated and @ constant temperature, pressure and gas flow
Sensor Type	Electrochemical
Expected Sensor Life	Up to 48 months under normal operating conditions in air
Range	0–100% oxygen
Alarms	Two user-programmable audible and visual alarms
Response Time	<15 seconds for 90% response; <25 seconds for 97% response
Operating Temperature	41° to 104°F (5° to 40°C)
Operating Humidity	0 to 95% rh, non-condensing
Storage Temperature	5° to 122° F (-15° to 50° C)
Power	9V alkaline battery, rechargeable lithium battery, 110/220 V wall plug-in or 12V DIN rail (panel mount only)
Dimensions (L x W x H)	4 x 2 x 5.5" (10.2 x 5 x 14 cm) panel mount & panel mount remote 2.5 x 1.75 x 4.25" (6.3 x 4.5 x 10.8 cm) handheld
Weight	9 oz (255 g) panel mount · 7.8 oz (221 g) handheld
Warranty	0 - 12 months 100% parts and labor 13 - 18 months 50% off sensor only 19 - 24 months 25% off sensor only 25+ months no warranty coverage

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

FEATURES

- On / off switch
- Display range of 0.0–100%
- Low battery warning indicator
- (2) High / Low custom audible & visual alarms
- 4-20 mA analog output for external devices
- Capable of shutting down compressor at set alarm

ADVANTAGES

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

OPTIONS

- FAILSAFE Module
- SMART START Module

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AVAILABLE PRO O_2 MODELS

SKU	Model Description	Power
Pro O2 Standard Series · Non-Alarming Oxygen Analyzers		
9450-B	Pro O2 Handheld	9V Battery
9450-E	Pro O2 Handheld	110/230V International Wall Plug-in
9450-LB	Pro O2 Handheld	Rechargeable Lithium Battery
9452-B	Pro O2 Remote	9V Battery
9452-E	Pro O2 Remote	110/230V International Wall Plug-in
9452-LB	Pro O2 Remote	Rechargeable Lithium Battery
9460-B	Pro O2 Remote Panel Mount	9V Battery
9460-DP	Pro O2 Remote Panel Mount	DIN Rail
9460-E	Pro O2 Remote Panel Mount	110/230V International Wall Plug-in
9460-LB	Pro O2 Remote Panel Mount	Rechargeable Lithium Battery
9462-B	Pro O2 Panel Mount	9V Battery
9462-DP	Pro O2 Panel Mount	DIN Rail
9462-E	Pro O2 Panel Mount	110/230V International Wall Plug-in
9462-LB	Pro O2 Panel Mount	Rechargeable Lithium Battery
Pro O2 Alarm Series · Alarm-Equipped Oxygen Analyzers		
9611-B	Pro O2 Alarm Handheld	9V Battery
9611-E	Pro O2 Alarm Handheld	110/230V International Wall Plug-in
9611-E-FS	Pro O2 Alarm Handheld + FAILSAFE	110/230V International Wall Plug-in
9611-E-SS	Pro O2 Alarm Handheld + SMART START	110/230V International Wall Plug-in
9611-LB	Pro O2 Alarm Handheld	Rechargeable Lithium Battery
9612-B	Pro O2 Alarm Panel Mount	9V Battery
9612-DP	Pro O2 Alarm Panel Mount	DIN Rail
9612-DP-FS	Pro O2 Alarm Panel Mount + FAILSAFE	DIN Rail
9612-DP-SS	Pro O2 Alarm Panel Mount + SMART START	DIN Rail
9612-E	Pro O2 Alarm Panel Mount	110/230V International Wall Plug-in
9612-E-FS	Pro O2 Alarm Panel Mount + FAILSAFE	110/230V International Wall Plug-in
9612-E-SS	Pro O2 Alarm Panel Mount + SMART START	110/230V International Wall Plug-in
9612-LB	Pro O2 Alarm Panel Mount	Rechargeable Lithium Battery
9612R-B	Pro O2 Alarm Panel Mount Remote	9V Battery
9612R-DP	Pro O2 Alarm Panel Mount Remote	DIN Rail
9612R-DP-FS	Pro O2 Alarm Panel Mount Remote + FAILSAFE	DIN Rail
9612R-DP-SS	Pro O2 Alarm Panel Mount Remote + SMART START	DIN Rail
9612R-E	Pro O2 Alarm Panel Mount Remote	110/230V International Wall Plug-in
9612R-E-FS	Pro O2 Alarm Panel Mount Remote + FAILSAFE	110/230V International Wall Plug-in
9612R-E-SS	Pro O2 Alarm Panel Mount Remote + SMART START	110/230V International Wall Plug-in
9612R-LB	Pro O2 Alarm Panel Mount Remote	Rechargeable Lithium Battery

PRO He ALARM ANALYZER SERIES

The Pro He Alarm Analyzer is designed for simple measurement of helium (He) 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 point 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**

	Pro He
Flow Rate	0.5 to 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
Weight	9 oz (0.3 kg) panel mount | 7.8 oz (0.22 kg) handheld 2 lb 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

WARNING: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. 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. A faulty Flow Restrictor can lead to a false analyzer reading. Flow Restrictors should be regularly tested with a Flow Meter. Inaccurate gas analysis can lead to serious personal injury or death.

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PRO DUO MULTIGAS ALARM ANALYZER SERIES

9618-LB (CO_2 · O_2) with Black Cover Carrying Case

The Nuvair PRO DUO series of gas analyzers come in different pairings to match your multigas analyzing requirements. Mounted in a rugged, water-resistant carrying case with black lid, the PRO DUO has two user-programmable audible and visual alarms for each gas sensor. Powered by a rechargeable lithium-ion battery (or 24V external DIN power for 9599-DP and 9599F-DP), the PRO DUO comes in the following configurations:

· Oxygen/Carbon Dioxide [SKU 9618-LB]
· Carbon Monoxide/Carbon Dioxide [SKU 9598-LB]
· Carbon Monoxide/Moisture [SKU 9599-DP]
· Oxygen/Carbon Monoxide [SKU 9623-LB]

9598F-LB (CO_2 · CO) with Flow Meter in a Clear Cover Mountable Case

Each PRO DUO is available with an optional flow meter [9618F-LB, 9598F-LB, 9599F-DP, 9623F-LB], and is mounted in a rugged, water resistant mounting case with clear lid.

Each sensor has two user-programmable audible and visual alarms. The internal sensors are plumbed together to monitor a single input. The analyzer has visual and optional audible alarms for each gas. An audible alarm sounds if any alarm set point is reached. When in alarm, the analyzer's analog output can activate an optional relay that shuts down compressors automatically, sounds a remote alarm, or activates emergency backup systems. All -LB models come equipped with a rechargeable lithium-ion battery and include a universal 110/230V charger. The -DP models are DIN powered.

Advantages
- Programmable alarm thresholds
- Audible and visual alarms
- Fast response
- Compact water-resistant container
- Designed to test breathing gases
- Easy to operate
- Reliable and accurate
- Optional relays for external alarm or compressor control
- Optional flow meter on some models

Features
- Audible and visual alarms for oxygen (O_2), carbon monoxide (CO), carbon dioxide (CO_2), and/or moisture (H_2O)
- Temperature compensated sensors
- User replaceable battery and sensors
- Low battery warning indicator
- Factory reset

CO_2 Analyzer
- 50 ppm resolution from 0 to 1000 ppm, then 100 ppm up to full scale
- 0-2000 ppm range

O_2 Analyzer
- 0-100% range oxygen monitor
- 36-month electrochemical sensor
- ±1% accuracy

CO Analyzer
- 0-100 ppm range CO monitor
- 18-month electrochemical sensor
- ±1% accuracy

Moisture Monitor
- Audible visual alarms for high moisture content in filters
- Warning light for filter changes

Replacement Sensors
- Oxygen Sensor Replacement | SKU 9507M
- Carbon Monoxide Sensor Replacement | SKU 9501-300 & SKU 9501-50

PLEASE NOTE: All Nuvair PRO DUO alarm analyzers are custom-made at the time your order is placed. If a rush order is required, please contact the sales team for estimated lead times.

WARNING Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. 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. A faulty Flow Restrictor can lead to a false analyzer reading. Flow Restrictors should be regularly tested with a Flow Meter. Inaccurate gas analysis can lead to serious personal injury or death.

PRO TRIMIX ALARM ANALYZER

The Pro Trimix Alarm Analyzer measures helium (He) and oxygen (O_2) levels in gases in the range of 0 to 100% of volume with up to a 1% resolution. It can be used to measure the He and O_2 content in all breathing gas mixes. The analyzer is designed to verify helium and oxygen concentrations in stored gas cylinders as well as to monitor the continuous flow of gas from a compressor. It is compatible with outdoor and marine environments, 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 an analog output at a user-defined set point.

FEATURES

- On / off switch
- Display range of 0.0-100% O_2
- (2) Custom audible and 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 O_2 sensor
- Long-life thermal conductive He sensor
- Automatic calibration

SPECIFICATIONS*

SKU: 9609	Pro He	Pro O_2 Alarm
Flow Rate	0.5–1 L/min	0.5–5 L/min
Resolution	0.1%	0.1%
Linearity / Repeatability	±2% over full scale (Linearity)	± 1 % volume O_2 @ 100% O_2, applied for 5 min (Repeatability)
Accuracy	±2% over full scale	±1% over full scale if sensor is well calibrated and at constant temperature, pressure, and gas flow
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	(2) User-programmable audible and visual alarms	(2) 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 lb 12 oz (1361 g)	

WARNING: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. 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. A faulty Flow Restrictor can lead to a false analyzer reading. Flow Restrictors should be regularly tested with a Flow Meter. Inaccurate gas analysis can lead to serious personal injury or death.

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

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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

Waterproof Box

SPECIFICATIONS*

Flow Rate	0.5-5 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 SKU: 9624 2.5 x 1.75 x 4.25 in (6.3 x 4.5 x 10.8 cm) handheld SKU: 9625 3.9 x 8.7 x 7.5 in (9.9 x 22.1 x 19.1 cm) waterproof box SKU: 9626
Weight	9 oz (0.3 kg) panel mount | 7.8 oz (0.22 kg) handheld 2 lb 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.

WARNING: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. 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. A faulty Flow Restrictor can lead to a false analyzer reading. Flow Restrictors should be regularly tested with a Flow Meter. Inaccurate gas analysis can lead to serious personal injury or death.

PRO CO_2 ALARM ANALYZER

The Pro CO_2 Alarm 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 CO_2 contamination in your gas. The CO_2 sensor is auto calibrating and provides a temperature compensated, linear CO_2 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
- Single charge battery life is 20 hours

ADVANTAGES

- Fast response
- Made to test breathing gases
- Easy to operate, reliable and accurate
- Non-dispersive infrared technology
- Modulated infrared light source = no moving parts

Waterproof Box
Only available with rechargeable lithium battery

Panel Mount

Handheld

SPECIFICATIONS*

	SKU 9617 panel mount | SKU 9616 handheld | SKU 9615-LB waterproof box
Flow Rate	0.6-1 L/min
Resolution	1 ppm
Repeatibility	±2% of full scale @ 68°F (20°C)
Linearity	At abmient temp 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	(2) 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	Rechargeable lithium battery, 110/230 V wall plug-in 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 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 lb 8 oz (1270 g) waterproof box
Warranty	12 months

WARNING: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. 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. A faulty Flow Restrictor can lead to a false analyzer reading. Flow Restrictors should be regularly tested with a Flow Meter. Inaccurate gas analysis can lead to serious personal injury or death.

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

MULTIGAS COLOR ALARM ANALYZER

Are you in search of a complete multigas monitoring solution? Look no further! The *Multigas Color* combines oxygen (O_2), carbon monoxide (CO) and carbon dioxide (CO_2) sensors with a moisture monitor and VOC (Volatile Organic Compound, including oil vapor) analyzer in a single water- and impact-resistant carrying case. The color display allows for continuous monitoring of ambient and compressed gases in a variety of environments. [SKU 9641]

FEATURES

- Digial analyzer with color display
- Audible and visual alarms for O_2, CO_2,CO, Moisture & VOC
- Controlled by a rotary/push knob
- User replaceable batteries and sensors
- Low battery warning indicator
- Sensor status indicators
- Micro SD storage ready

ADVANTAGES

- Programmable visual and audible alarm thresholds
- Fast response: 10 ms (min) per channel sampling
- Compact water resistant container (12 x 10.6 x 5.7 in)
- Easy to operate, reliable and accurate
- Optional relays for external alarm or compressor control

O_2 Sensor

- 0-100% range
- Resolution: 0.1%

CO_2 Sensor

- 0-500 ppm range
- 0.0-0.5% or 0-100%
- Resolution: 20 ppm

CO Sensor

- 0-50 ppm or 0-300 ppm range
- Resolution: 1 ppm
- Available dew point sensor up to -110°C

Moisture Monitor

- Moisture reading of relative humidity from 0.0 to 99.9%
- Absolute humidity in mg/m^3 or PPMv

VOC Analyzer

- VOC gas mix in the range of 0.01 to 20 ppm related to isobutylene
- Resolution: 0.01 ppm

WARNING

Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. 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. A faulty Flow Restrictor can lead to a false analyzer reading. Flow Restrictors should be regularly tested with a Flow Meter. Inaccurate gas analysis can lead to serious personal injury or death.

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NUVAIR 455 PREMIUM SYNTHETIC FOOD GRADE OIL

HP and LP Reciprocating Breathing Air Compressor 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.

SKU 9406 · 9407 · 9408

INDUSTRIAL APPLICATIONS

- Reciprocating compressors
- Meat processing plants
- Poultry processing plants
- Food processing (H-1)
- Vacuum pumps

CHARACTERISTICS

- Available in quart, one-gallon and five-gallon containers
- Complies with FDA 21 CFR 178.3570 H-1
- Outstanding wear and lubricity properties
- Low pour point and high flash point
- Excellent compatibility with elastomers, seals, plastics and paints
- Good corrosion control
- Less varnish formation
- Rated by the manufacturer for use with nitrox at up to 40% O_2.*

SPECIFICATIONS

	ASTM Test Method	Nuvair 455
SAE Grade		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

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

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NUVAIR 546 PREMIUM SYNTHETIC FOOD GRADE OIL

Food Grade Synthetic Rotary Screw Compressor Oil

SKU 9409 · 9410

APPLICATION

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

INDUSTRIAL APPLICATIONS

- Rotary screw compresors
- Meat processing plants
- Poultry processing plants
- Food processing (H-1)
- Vacuum pumps

CHARACTERISTICS

- Available in one and five-gallon containers
- Improved thermal and oxidative stability over mineral oil
- 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 at up to 40% O_2.*

SPECIFICATIONS

	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
Demusibility	D1401	Excellent

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

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FILL CONTAINMENT STATIONS

FEATURES

- All steel construction with Grade 8 steel structural hardware
- 2 to 5 cylinder capacity
- 1 to 5 cylinder recharging capable
- Design third-party tested to meet NFPA 1901
- Safety interlock only allows filling when cabinet door and safety bar are secured
- Ergonomic design for easy operation
- Vertical blast tubes direct air blast and debris away from the operator should a failure occur
- Can be used with with existing fill controls
- Designed to fit SCBA tanks
- Liners reduce wear on cylinders
- Doors open to 60° for easy cylinder insertion

OPTIONS

- Pneumatic doors
- Custom control panel
- Gas analyzer/s
- Storage bank controls
- Nitrox compatible system
- High pressure regulator
- Additional gauges
- SCUBA tank compatible (≤S80)
- Choice of fill whips
- Integrated booster pump
- Oxygen service ready system
- OCA filtration

NSS-4P Air / Nitrox
Regulated 4-Tank, 4-Bank Fill Panel
with Pro O2 Analyzer & Pneumatic Door

SCUBA Yoke Whip
SKU NS-WHIP-INT

DIN Whip
SKU NS-WHIP-DIN

SCBA Whip
SKU NS-WHIP-SCBA

NCC-2 2-Tank
Basic Cabinet · No Controls

NCC-2
Regulated 2-Tank Fill Panel · Manual Door

NSS-4P
Regulated 4-Tank, 1-Bank Fill Panel · Pneumatic Door

BASE MODEL	CYLINDER CAPACITY	DOOR OPERATION	DUAL/SINGLE PRESSURE	CABINET WEIGHT	CABINET DIMENSIONS (L × W × H)
NCC-2	2	Manual	Single	420 lb (190.5 kg)	25 × 26 × 41 in (64 × 66 × 104 cm)
NSS-2	2	Manual or Pneumatic	Single or Dual	560 lb (254 kg)	25 × 26 × 59 in (64 × 66 × 150 cm)
NSS-3	3	Pneumatic	Single or Dual	600 lb (272 kg)	25 × 40 × 59 in (64 × 102 × 150 cm)
NSS-4	4	Pneumatic	Single or Dual	670 lb (304 kg)	25 × 53 × 59 in (64 × 135 × 150 cm)
NSS-5	5	Pneumatic	Single or Dual	750 lb (340 kg)	25 × 53 × 59 in (64 × 135 × 150 cm)

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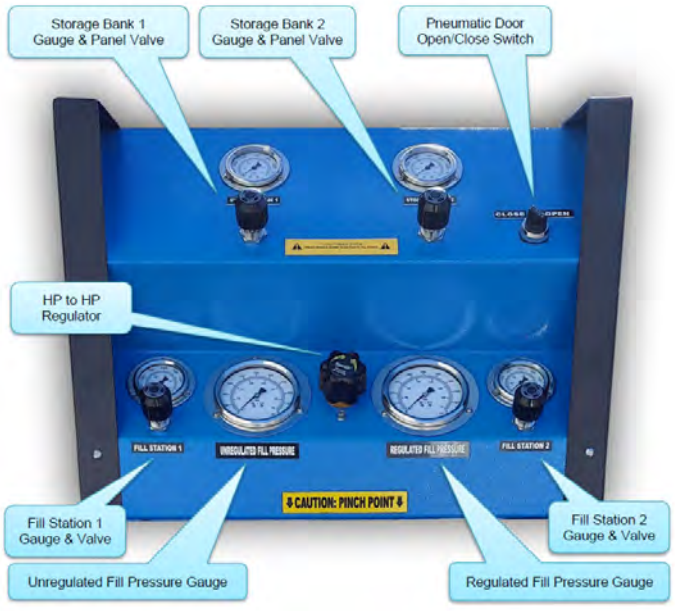
CUSTOM-BUILT SOLUTIONS

Nuvair fill containment stations (also called "blast cabinets" and "fragmentation cabinets") are available in 2–5 cylinder configurations with 1–4 storage bank controls. Our two cylinder model comes in manual or pneumatic doors; the 3–5 cylinder stations are all constructed with pneumatic doors. Every fill station is equipped with a safety interlock that only allows the filling of cylinders when both the door and safety bar are secured.

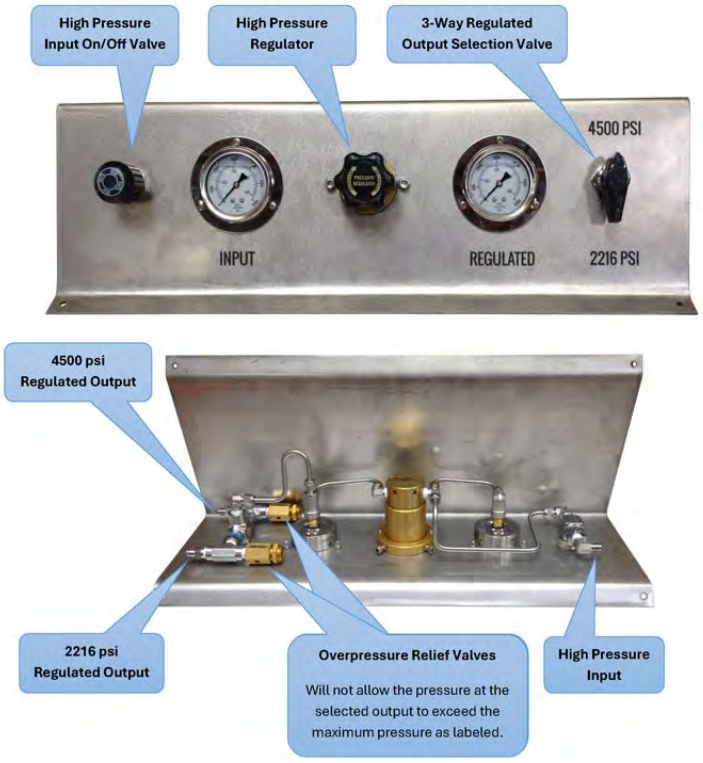
Nuvair has custom designed and manufactured hundreds of fill containment stations including nitrox and booster-integrated systems for a variety of industries including fire stations and dive centers. All customized fill stations are designed and fabricated at our California production facility and are made-to-order. If you are looking for a basic cabinet or a custom-built solution for integration into your single- or multi-bank air or multigas system, please contact the Nuvair sales team for assistance.

This following pages highlight some of our top-selling cabinets.

NCC-2
Regulated 2-Tank, 1-Bank · Manual Door



NCC-2 Fill Panel Control Descriptions
Regulated 2-Tank, 2-Bank · Pneumatic Door



NCC-PN-RDP Fill Panel Components
Regulated 2-Bank · Manual Door

CUSTOM FILL CONTROLS

Our ergonomically designed, heads-up fill station control panels can include any of the following components:

- Fill station supply line shutoff valve
- Multiple storage bank control valves and gauges
- Unregulated fill pressure gauge
- High pressure regulator
- Independent storage pressure and regulated fill pressure gauges
- Individual cylinder fill pressure gauges and control valves
- Three-way control valve for hot fill, storage bank/s, or cascade system
- Nuvair Pro gas analyzer/s for mixed gas fills
- Integrated booster control
- Pneumatic door control switch
- Dump valve
- Control panel light

NCC-2
Regulated 2-Tank, 4-Bank · Manual Door

NSS-3
Regulated 3-Tank, 1-Bank
Pneumatic Door

NCC-PN-RDPV Fill Panel
Regulated 2-Tank, 2-Bank · Manual Door

NSS-4 Booster-Integrated Fill Panel · Pneumatic Door

NCC-2P-OCA
Regulated 2-Tank, 2-Bank
with OCA Filtration · Pneumatic Door

NCC-4P
Regulated 4-Tank, 1-Bank
with Pneumatic Door

NCC-5P
Unregulated 5-Tank, 1-Bank
with Pneumatic Door

RESOLVE SPECIALTY PRODUCTS SPACESAVER®

SpaceSaver units are designed for both mobile and standalone SCBA and scuba cylinder filling. Units can be incorporated directly onto fire and emergency vehicles or as a fixture in any cylinder filling location. SpaceSaver units will contain cylinders and any metal fragments in the event of a rupture during the filling process. Combined with our versatile air control panel, this unit can be customized to fit your specific needs.

FEATURES

- The body is constructed with 3/16 in and 3/8 in plate steel for maximum safety and protection from rupture.
- The door is constructed with 1/4 in stainless steel.
- The ergonomic design is made with assistance devices to assure smooth operation and reduce operator fatigue.
- The automatic safety interlock system prevents operation until unit is secured.
- The optional air control panel can be mounted on either side of the unit or remotely.

Model 100A
Dimensions: 13 x 23 x 42.5 in
(L x W x H) (33 x 58 x 108 cm)
Weight: 400 lbs (181 kg)

Model 400V
Dimensions: 15 x 17.75 x 42.5 in
(L x W x H) (38 x 45 x 108 cm)
Weight: 330 lbs (150 kg)

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HIGH PRESSURE STORAGE RACKS

Nuvair offers stock and custom-designed storage racks for high pressure cylinders. Our standard racks can accommodate 1, 2, 3, 4, 6, 8, 9, 12 or 16 tanks; our custom racks can meet most requirements.* Some racks are available in a horizontal configuration. Certified frames also available. Unless otherwise stated, air/nitrogen storage tanks are sold separately.

RACK OPTIONS

- Air or nitrogen storage tank packages: 4500, 5000, 6000 or 7000 psi rated—depending on gas stored
- Manifold connecting tanks
- Manifold to split tanks into banks
- Inlet and outlet valves
- Over-pressure relief valve
- Regulator and mount
- Priority fill panel
- Fill panel
- Wheels
- Galvanized frame
- Certified frame package
  - Pull test and weld inspection

Air/Nitrogen 16-Tank Rack
SKU NUVTR-16

Air/Nitrogen 6-Tank Rack
SKU NUVTR-6

ASME 6-Tank Short Rack
SKU NUVTR-S6-7000-ASME

Air/Nitrogen 4-Tank Horizontal Stackable Rack
SKU NUVTR-H6

* Nuvair storage racks can be custom built to customer specifications. Please contact the sales team for estimated lead times.

SELECTED SPECIFICATIONS

	16-Tank Vertical Rack	12-Tank Vertical Rack	9-Tank Vertical Rack	6-Tank Vertical Rack
SKU	FR-NUVTR-16	FR-NUVTR-12	FR-NUVTR-9	FR-NUVTR-6
Configuration	Frame Only	Frame Only	Frame Only	Frame Only
Dimensions (in)	44.25 L × 44.25 W × 68.625 H	43.0 L × 31.0 W × 69.9 H	33.0 L × 31.0 W × 69.9 H	31.56 L × 20.63 W × 70.75 H
Weight	760 lb (345 kg)	420 lb (190 kg)	360 lb (345 kg)	275 lb (125 kg)
Tank Storage Capacity @ 4500 psi (310 bar)				
Air	7893 cu ft (223.5 m³)	5920 cu ft (168 m³)	4440 cu ft (126 m³)	2960 cu ft (84 m³)
Nitrogen	6778 cu ft (192 m³)	5083 cu ft (144 m³)	3812 cu ft (95 m³)	2542 cu ft (72 m³)

	ASME 6-Tank Short Rack	6-Tank Horizontal Rack	4-Tank Vertical Rack	4-Tank Horizontal Rack
SKU	NUVTR-S6-7000-ASME	FR-NUVTR-H6	FR-NUVTR-4	FR-NUVTR-H4
Configuration	Steel rack and (6) Tanks	Frame Only	Frame Only	Frame & Distribution Panel
Dimensions (in)	44.25 L × 44.25 W × 68.625 H	70.0 L × 65.0 W × 19.0 H	27 L × 25 W × 62.55 H	63 L × 46 W × 14 H
Weight	2660 lb (1207 kg)	275 lb (125 kg)	130 lb (59 kg)	150 lb (68 kg)
Tank Storage Capacity @ 4500 psi (310 bar)				
Air	3222 cu ft (91 m³) @ 7000 psi	2960 cu ft (84 m³)	1973 cu ft (56 m³)	1973 cu ft (56 m³)
Nitrogen		2542 cu ft (72 m³)	1694 cu ft (48 m³)	1694 cu ft (48 m³)

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BOOSTER MIXED GAS TRAVEL KIT

- Allows user to partial pressure blend nitrox or technical trimix blends for diving
- Allows for transfilling and boosting air to 3500 psi
- Portable in a watertight Pelican Case iM2875

SPECIFICATIONS

MSB9000 | SKU NUVB-KIT-9000

Drive	4 in (10 cm)
Ratio	25:1
Weight	70 lb (32 kg)
Max Rated Inlet Pressure	4500 psi (310 bar)
Max Rated Outlet Pressure	4500 psi (310 bar)
Volume per Cycle	1.232 cu in (20.2 mL)
Max Air Drive Pressure	150 psi (11 bar)
Max Developed Output Pressure	3750 psi (259 bar)
Min Gas Supply Pressure	100 psi (7 bar)

SPECIFICATIONS

AG-30X | SKU NUVB-KIT-AG30X

Drive	5.75 in (14.6 cm)
Ratio	30:1
Weight	80 lb (36 kg)
Max Rated Inlet Pressure	4500 psi (310 bar)
Max Rated Outlet Pressure	4500 psi (310 bar)
Volume per Cycle	3.1 cu in (50.8 mL)
Max Air Drive Pressure	4500 psi (310 bar)
Max Developed Output Pressure	4500 psi (310 bar)
Min Gas Supply Pressure	100 psi (7 bar)

SPECIFICATIONS

AGT-15/30 | SKU NUVB-KIT-AGT15/30

Drive	5.75 in (14.6 cm)
Ratio	15:1
Weight	90 lb (41 kg)
Max Rated Inlet Pressure	5000 psi (345 bar)
Max Rated Outlet Pressure	5000 psi (345 bar)
Volume per Cycle	6.2 cu in (101.6 mL)
Max Air Drive Pressure	9000 psi (620 bar)
Max Developed Output Pressure	5000 psi (345 bar)
Min Gas Supply Pressure	50 psi (3.5 bar)

FEATURES

- MSB9000, AG-30 or AGT-15/30 booster installed
- Inlets for three different gasses with quick disconnects and oil-free pressure gauges:
  - Oxygen
  - Helium
  - OCA air
- Large, 4-inch digital final pressure gauge
- Quick disconnect for final output fill whip
- Standard QD for first stage connection to drive from scuba bottle
- Speed control needle valve for booster

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.

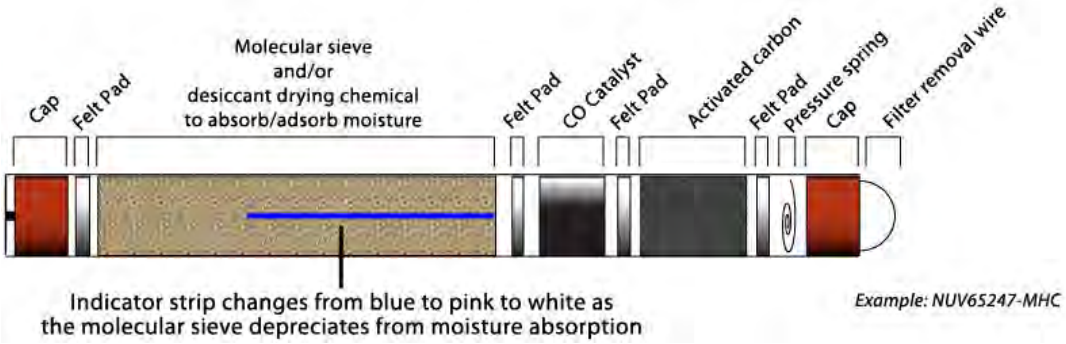
FEATURES

- 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 H_2S, CO, and / or CO_2 alarm analyzer with shutdown capability
- Isolation valve
- Flow fuse
- Flow restrictor
- OCA (oxygen compatible air)

TRI-CHEM BREATHING FILTER



Example: NUV65247-MHC

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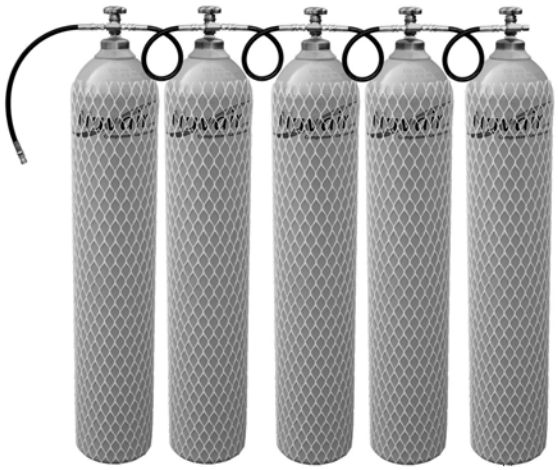
NUVAIR HIGH PRESSURE AIR STORAGE

10 Year Hydro Test HP Cylinders

We are taking advantage of the latest cylinder technology available. Our new storage tanks are lightweight 4500, 6000 and 7000 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 1, 2, 3, 4, 6, 8, 9, 12 or 16 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) 487 cu ft air capacity
- 6000 psi (414 bar) 650 cu ft air capacity
- 7000 psi (483 bar) 537 cu ft air capacity

CGA Tank Valve

Storage Regulator

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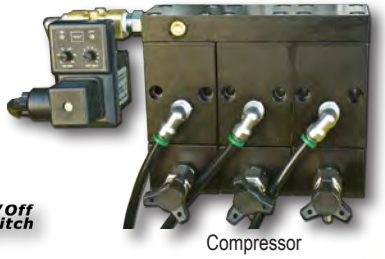
NUVAIR AIR COMPRESSOR ACCESSORIES

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

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

Motor Starter with Hour Meter/ Tach and Dial-a-Pressure Switch


Compressor Auto Drains


Interstage Pressure Gauges


High Temp Switch


Visual CO / Moisture


On / Off Valve


Bleed Valve


Over Pressure Relief


Quick Release Hose Ends


High Pressure Hoses Stock and Custom


CGA Fittings


Steel and Stainless Steel Fittings-NPT, JIC and SAE

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.

Two Bank Panel


Two Bank Panel with Extra Filtration


Two Bank Panel with Extra Filtration and Moisture Removal

HASKEL GAS BOOSTERS

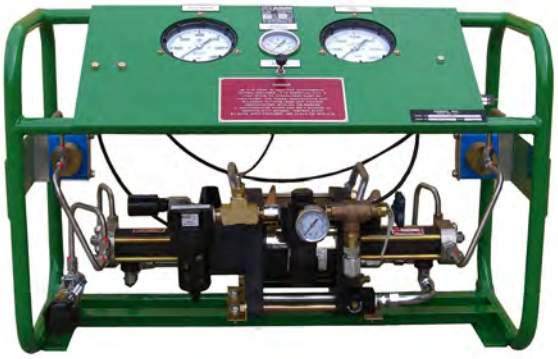
Nuvair is an authorized distributor and service center for Haskel boosters. A booster takes gases from a low pressure source, increases the pressure, and delivers it to a high pressure destination. No need for motors or engines; the booster is powered by a secondary supply of compressed air.

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 ration 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 ration 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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