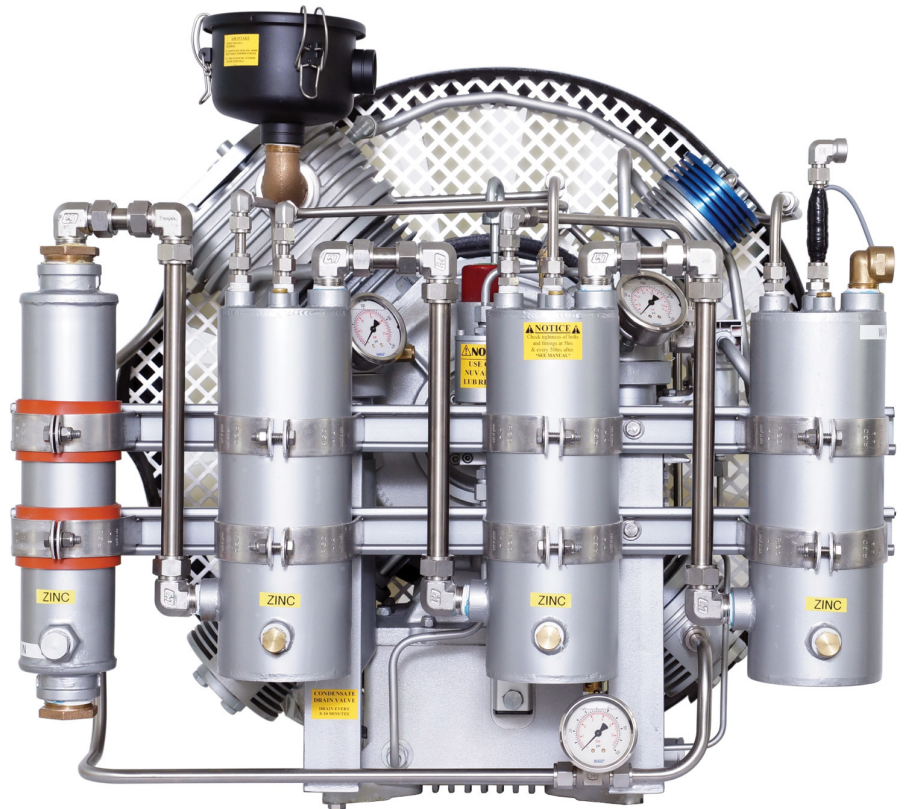


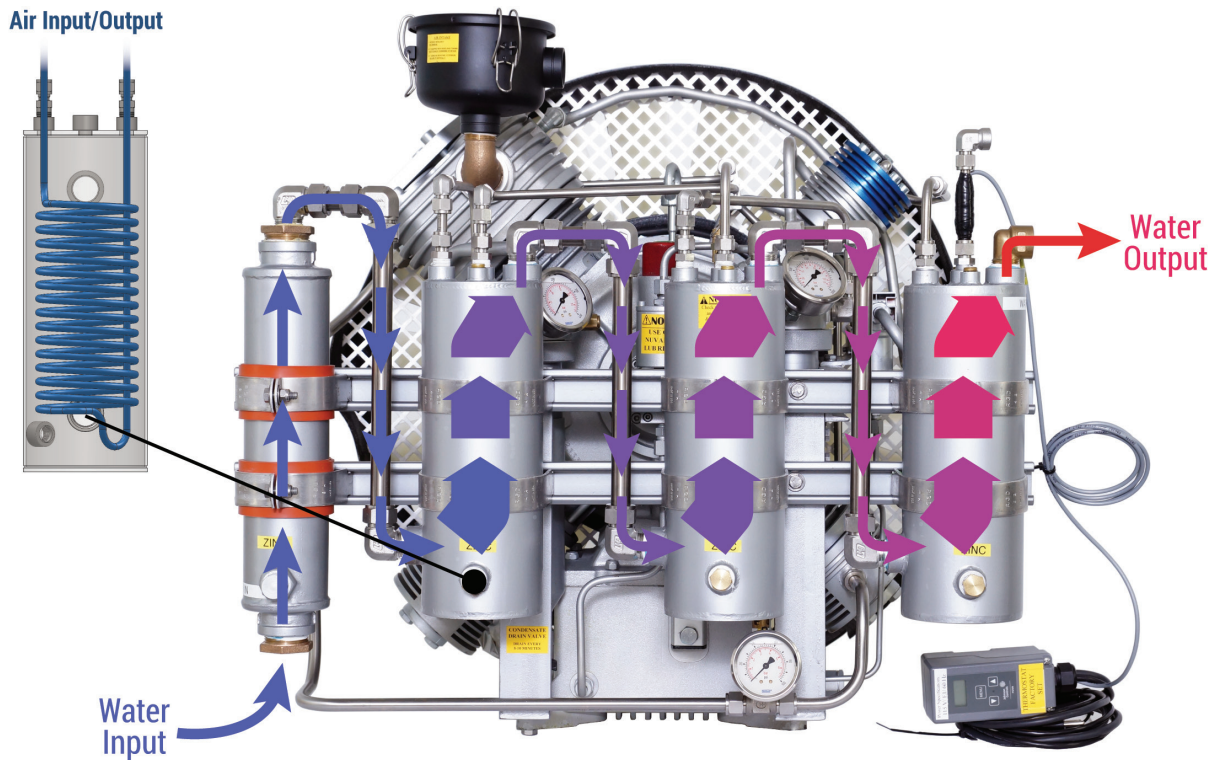


Water Cooled Air Compressors

The most convenient, efficient and effective way to cool your high pressure compressor.



HOW IT WORKS



1
2
3

When the machine is running, water is pumped through the coolers.

The water coolers are used in place of the regular air cooling tubes.

The heated water can then be directed overboard.



Fresh or Sea Water

Our water cooling systems can be used in freshwater or seawater scenarios.



Extended Life

A cooler compressor substantially extends its life, including but not limited to the filters and the valves.



More Efficient

Water is over **3000 times** more efficient than air at absorbing and storing heat in a normal climate.

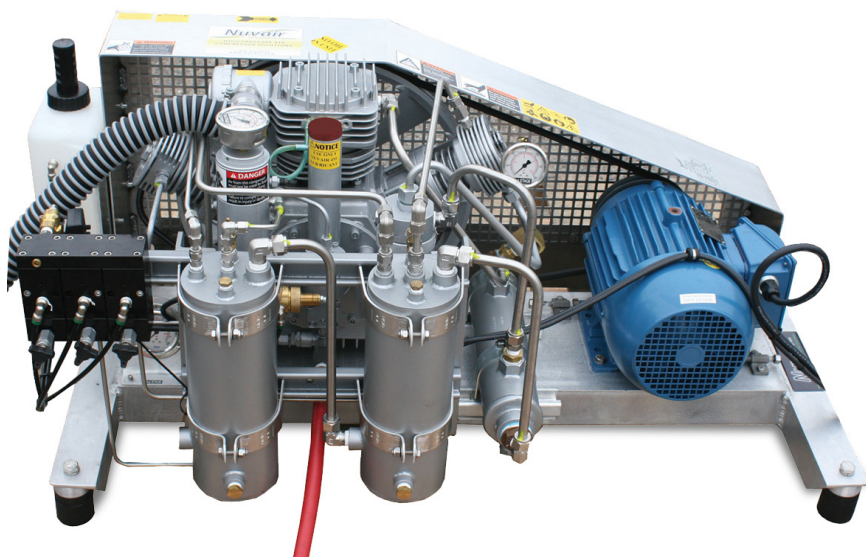
NUVAIR WATER COOLED MCH13 / MCH16 COMPRESSOR

FEATURES

- Cools each stage to within 10° of water temperature
- 1st stage copper / nickel heat exchanger
- 2nd and 3rd stage stainless steel heat exchangers
- All heat exchangers have zinc anodes to increase life
- Water flow shutdown switch
- High water temperature shutdown
- Rugged 5000 psi three-stage block
- Pressurized oil lubrication
- 3 x condensate separators
- Stainless steel tubing
- Marine grade 6061 aluminum frame

OPTIONS

- PLC controller
- Motor control box
- High purity final filtration
- Pressure switch
- Automatic drains (shown below)
- Inter-stage pressure gauges (shown below)
- Low oil shutdown switch
- Hour meter
- Visual CO / moisture indicator
- Stainless steel frame



SPECIFICATIONS

	MCH13	MCH16
Fill Time*	Approx 11 min	Approx 9 min
Charging Rate*	8.4 SCFM (238 L/min)	11.3 SCFM (320 L/min)
CFM FAD	7 CFM (200 L/min)	9.4 CFM (266 L/min)
Motor	Three-phase electric	Three-phase electric
208 - 230 V / E1 / 60 Hz	24 amps SKU: 8019.1-WC	35 amps SKU: 8022.1-WC
208 - 230 V / E3 / 50 Hz	14 amps SKU: 8019.5-WC	22 amps SKU: 8022.5-WC
208 - 230 V / E3 / 60 Hz	14 amps SKU: 8019.2-WC	22 amps SKU: 8022.2-WC
380 - 400 V / E3 / 50 Hz	9 amps SKU: 8019.6-WC	13 amps SKU: 8022.6-WC
440 - 460 V / E3 / 60 Hz	7 amps SKU: 8019.3-WC	11 amps SKU: 80022.3-WC
Power	5.5 hp (4 kW)	7.5 hp (5.5 kW)
Max Operating Pressure	5000 psi (345 bar)	5000 psi (345 bar)
Dimensions (L x W x H)	24 x 21 x 31 in (61 x 53.3 x 79 cm)	24 x 21 x 31 in (61 x 53.3 x 79 cm)
Weight	297 lbs (134.7 kg)	297 lbs (134.7 kg)

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

NUVAIR WATER COOLED MCH22 / MCH30 / MCH36 COMPRESSOR

FEATURES

- Cools each stage to within 10° of water temperature
- Marine grade heat exchangers
- Low oil shutdown switch
- Zinc anodes to increase life
- Water flow shutdown switch
- High water temperature shutdown
- Rugged 6000 psi four-stage block
- Pressure lubricated oil pump with filter, oil sight gauge and oil pressure gauge
- 3 x condensate separators
- Stainless steel tubing
- Marine grade aluminum compressor frame
- Automatic fill pressure stop
- Automatic drains
- Interstage pressure gauges

OPTIONS

- PCL controller
- Upgraded high purity final filtration
- Stainless steel or powder coated steel compressor frame



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	Three-phase	Three-phase
208 - 230 V / E3 / 50 Hz	28 amps SKU: 8046.5-WC	27 amps SKU: 8053.5-WC	34 amps SKU: 8054.5-WC
208 - 230 V / E3 / 60 Hz	33 amps SKU: 8046.2-WC	48 Amps SKU: 8053.2-WC	65 amps SKU: 8054.2-WC
380 - 400 V / E3 / 50 Hz	18 amps SKU: 8046.6-WC	21 amps SKU: 8053.6-WC	28 amps SKU: 8054.6-WC
440 - 460 V / E3 / 60 Hz	15 amps SKU: 8046.3-WC	22 amps SKU: 8053.3-WC	29 amps SKU: 8054.3-WC
Power	10 hp (7.5 kW)	15 hp (11 kW)	20 hp (15 kW)
Max Operating Pressure	6000 psi (414 bar)	6000 psi (414 bar)	6000 psi (414 bar)
RPM	1000	1100	1300
Number of Stages	4	4	4
Noise LpA	75 dB	76 dB	77 dB
Dimensions (L x W x H)	36 x 36 x 53.5 in (91 x 91 x 136 cm)	36 x 36 x 53.5 in (91 x 91 x 136 cm)	36 x 36 x 53.5 in (91 x 91 x 136 cm)
Weight	630 lb (286 kg)	650 lb (295 kg)	700 lb (318 kg)

*Based on 80 cu ft cylinder from 500 to 3000 psi. **Single phase is 220 V / E1 / 60 Hz SKU: 8046.1-WC

NUVAIR LP280 / 300 / 450 / 600

WATER COOLED MARINE NITROX GENERATOR

FEATURES

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

ADVANTAGES

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



OPTIONS

- Nitrox manager
- Low / high O₂ alarm or shutdown
- Low / high CO alarm or shutdown
- Low / high CO₂ alarm or shutdown
- Remote operation capability
- Frequency drive for easy start
- Sound shield

SPECIFICATIONS

	LP280 10 hp (7.5 kW)	LP300 10 hp (7.5 kW)	LP450 15 hp (11 kW)	LP600 20 hp (15 kW)
208 - 230 V / E1 / 60 Hz	50 amps SKU: 7060.1ME-EK76-WC	N/A	N/A	N/A
208 - 230 V / E3 / 60 Hz*	N/A	33 amps SKU: 7060.2ME-EK76-WC	47 amps SKU: 7061.2ME-EK76-WC	63 amps SKU: 7062.2ME-EK76-WC
380 - 415 V / E3 / 50 Hz	N/A	18 amps SKU: 7060.6ME-EK76-WC	22 amps SKU: 7061.6ME-EK76-WC	29 amps SKU: 7062.6ME-EK76-WC
440 - 480 V / E3 / 60 Hz	N/A	15 amps SKU: 7060.3ME-EK76-WC	21 amps SKU: 7061.3ME-EK76-WC	29 amps SKU: 7062.3ME-EK76-WC
LP Compressor				
Charging Rate	29 CFM (821 L/min)	29 CFM (821 L/min)	46 CFM (1303 L/min)	57 CFM (1614 L/min)
Membrane Input				
Operating Pressure	100-175 psi (7-12 bar)	100 - 175 psi (7-12 bar)	100-175 psi (7-12 bar)	100-175 psi (7-12 bar)
Supply Air Volume	8-30 SCFM (227-850 L/min)	8-30 SCFM (227-850 L/min)	10-44 SCFM (283-1246 L/min)	13-60 SCFM (368-1699 L/min)
Optimum Temperature	110° +/- 5°F (43° +/- 3°C)	110° +/- 5°F (43° +/- 3°C)	110° +/- 5°F (43° +/- 3°C)	110° +/- 5°F (43° +/- 3°C)
Dimensions	44.5 x 9 x 35.5 in (113 x 23 x 90 cm)	44.5 x 9 x 35.5 in (113 x 23 x 90 cm)	69.5 x 14 x 35.5 in (177 x 36 x 90)	44.5 x 9 x 43 in (113 x 23 x 109 cm)
Rated to Supply				
FAD for 40% O ₂	10 CFM (283 L/min)	11 CFM (311 L/min)	16 CFM (453 L/min)	21 CFM (595 L/min)
FAD for 36% O ₂	12.5 CFM (354 L/min)	14 CFM (396 L/min)	20 CFM (566 L/min)	26.5 CFM (750 L/min)
FAD for 32% O ₂	17 CFM (481 L/min)	19 CFM (538 L/min)	27.5 CFM (779 L/min)	36 CFM (1019 L/min)
Dimensions (L x W x H)	27 x 41.5 x 40.5 in (68.6 x 105 x 103 cm)	27 x 41.5 x 40.5 in (68.6 x 105 x 103 cm)	29.5 x 45.5 x 40.5 in (75 x 116 x 103 cm)	29.5 x 45.5 x 40.5 in (75 x 116 x 103 cm)
Weight	580 lbs (263 kg)	570 lbs (259 kg)	620 lbs (281 kg)	740 lbs (336 kg)

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



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