

Element HP Nitrox System

SKU: 7053

Price: ?0.00



Description

The Nuair Element HP makes high pressure nitrox (22-40% oxygen) from an existing low pressure or high pressure 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 (O₂). 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 Element HP's optional compressor packages is provided in the Element HP Nitrox System Operation Manual.

Features

- 10 CFM (283 L/min) nitrox membrane system with two (2) oxygen analyzers
- Powered by electric (single- or three-phase) motor, Honda gas or Kohler diesel engine
- Portable with (4) integrated lifting handles
- HP Compressor: Pump air to 4500 psi (310 bar), nitrox to 3600 psi (250 bar)
- Fill Time: 7.5 minutes (80 cu ft tank, 500 to 3000 psi)
- Motor starter/electric start
- Grade E filtration

Advantages

- Pump HP air or nitrox containing 21–40% oxygen
- None of the costs, hassles, or hazards of oxygen blending
- Modular design offers versatility and a simple upgrade path

- Element HP produces HP nitrox from existing HP air banks
- Combine with the Element LP for a turnkey nitrox generating system

Options

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

Specifications

Motor Options	High Pressure (HP)	Low Pressure (LP)
208-230 V / E1 / 60 Hz	39A SKU 7053-16.1HPF	39A SKU 7053-16.1LPF
208-230 V / E3 / 60 Hz	25A SKU 7053-16.2HPF	25A SKU 7053-16.2LPF
380-415 V / E3 / 50 Hz	16A SKU 7053-16.6HPF	16 A SKU 7053-16.6LPF
440-480 V / E3 / 60 Hz	11A SKU 7053-16.3HPF	11A SKU 7053-16.3LPF
Yanmar Diesel	SKU 7053-16.HPF-D (electric start)	SKU 7054-16.HPF-D (electric start)
Honda Gas	SKU 7053-16.HPF-G (electric start)	SKU 7054-16.HPF-G (electric start)
Required Supply @ 175 psi	Requires 23 CFM (665 L/min)	Requires 23 CFM (665 L/min)
Membrane Input		
Operating Pressure	90–165 psi (6–11 bar)	90–165 psi (6–11 bar)
Supply Air Volume	13–25 SCFM (368–708 L/min)	13–25 SCFM (368–708 L/min)
Optimum Temperature	110±5°F (43°±3°C)	110±5°F (43°±3°C)
HP Nitrox Compressor		
Charging Rate*	9 SCFM (265 L/min)	6–10 SCFM (212–708 L/min)
Power - Electric	7.5 hp (5.5 kW)	5–7.5 hp (3.8–5.5 kW)
Power - Gas	9–11 hp (6.6–8.3 kW)	11–13 hp (8.3–9.7 kW)
Power - Diesel	9 hp (6.6 kW)	9–10 hp (6.6–7.5 kW)
Dimensions (L x W x H)	46 × 25.5 × 35 in (117 × 65 × 89 cm)	46 × 25.5 × 35 in (117 × 65 × 89 cm)
Weight	352–450 lb (160–177 kg)	400–510 lb (182–232 kg)

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