

TOX-HP Oxygen Concentrators



The TOX-HP Series Oxygen Concentrators produce 20-40 SCFH of oxygen at a pressure of up to 100 PSI. They are great for applications where higher oxygen pressures or higher flows are required periodically. This series of oxygen concentrators are free standing units that provide highly concentrated oxygen by removing Nitrogen from the air we breathe.

TOX-HP PROCESS

The flow and pressure of oxygen produced by the concentrator module is monitored with the flow meter and pressure gauge on the front cabinet. This oxygen is then compressed up to 100 PSI in the 30-gallon storage tank.

The Oxygen Concentrator provides oxygen at the rated flow to the boost compressor. The boost compressor will continue to pressurize the oxygen receiving tank until the pressure switch setpoint (100 psi) is reached. This oxygen is then available in a continuous flow at or below the oxygen production rating, or in a high-volume flow until depleted.

SYSTEM FEATURES

- Produce oxygen on-site
- Built-in air filtration system
- Only electrical power is required
- Low oxygen purity indicator
- Easy to rebuild/replace components
- Automatically maintain oxygen pressure
- Unit is powered with standard 120 VAC power (220 VAC Option Available)

APPLICATIONS

- Oxygen Torches
- Hyperbaric Chambers
- Glass Blowing
- Any time high flow rates of oxygen are needed intermittently

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Model	Oxygen Production	Dimensions (LxHxW)	Power Requirement
TOX-20HP	20 SCFH	34" x 34" x 14"	120 VAC
TOX-30HP	30 SCFH	38" x 36" x 16"	120 VAC
TOX-40HP	40 SCFH	38" x 36" x 16"	120 VAC



PRESSURE SWING ABSORPTION (PSA)

Clean, dry compressed air is fed into the first molecular sieve bed. Nitrogen is adsorbed, while oxygen is allowed to flow through. When the sieve in the first bed becomes full of nitrogen, the airflow is then directed into the second bed. As the second bed separates the oxygen from the nitrogen, the first bed vents its nitrogen into the atmosphere. Compressed air is once again fed into the first bed, and the process is repeated continuously.

OPTIONS

- The TOX-HP series can be ordered with the standard 120 VAC electrical power option, there is also a 220 VAC, 50 Hz option.

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