



# Model 6410 Series Oxygen Absorbing Purifiers



Model 6413 without protective lexan cover



Model 6414



Model 6410

### Description

The Model 6410 Series Oxygen Absorbing Purifiers are high-efficiency purifiers that will remove trace contaminants of both oxygen and water vapor from most non-corrosive gases.

These Oxygen Absorbing Purifiers are available in two pressure configurations. A high-pressure model for direct connection between the supply gas cylinder and the pressure-reducing regulator is available in either brass or stainless steel construction, and an economical aluminum low-pressure line model will purify gases up to 90 psig.

The Model 6410 Series uses a disposable cartridge containing an oxygen absorbing media. This media removes oxygen by chemisorption on a highly active metallic surface supported by an inert base. Water vapor is simultaneously removed by adsorption on a molecular sieve. Oxygen and water can be removed from rare gases, nitrogen, helium, argon, hydrogen, carbon monoxide, carbon dioxide, methane, saturated hydrocarbons, nitrous oxide, nitric oxide, hydrogen chloride, ammonia, fluoridated olefines, and halocarbons.

### Design Features/Components

- Effluents of < 0.1 ppm oxygen guaranteed
- Active disposable cartridge treats 250 scf of gas
- Oxygen removed without introduction of other impurities
- High-pressure vessel designed for up to 3000 psig operation (6410 only)

### Specifications

- Average Treatment per Cartridge: 250 scf (7000 liters)
- Discharge Gas Purity:
  - O<sub>2</sub> < 0.1 ppm where inlet does not exceed 15 ppm.
  - H<sub>2</sub>O < 0.5 ppm where inlet does not exceed 10 ppm.
- Maximum Flow Rate for Purity: 60 slpm
- Operating Temperature Range: -0°C to +100°C
- Operating Pressure:
  - 0-3000 psig (6410)
  - 0-90 psig (6412, 6413 & 6414)
- Dimensions:
  - 2" dia x 7-3/4" L (6410)
  - 2" dia x 9" L (6412)
  - 2-1/2" dia x 9" L (6413 & 6414)
- Inlet & Outlet:
  - 1/4" FPT (6410)
  - 1/4" OD compression (6412, 6413 and 6414)
- Shipping Weight:
  - 6 lbs (6410)
  - 2 lbs (6412)
  - 4 lbs (6413 & 6414)
- Non-indicating Cartridge: 641-01
- Indicating Cartridge: 641-02 (dark blue to brown color change)

*Note: gases to be purified should have <1000 ppm total impurities to avoid oversaturation of the cartridge too quickly.*

### Ordering Information

Model No.	Description
6410	Housing only—High Pressure Stainless Steel
6412	Housing only—Low Pressure Aluminum
6413	Housing Lex/Al + two 641-02 Indicating Cartridges
6414	Housing Lex/Al + two 641-01 Non-indicating Cartridges
641-01	Cartridges (two)—for 6410 or 6414
641-02	Cartridges (two)—for 6412 or 6413