



## Submarine Manufacturing & Products Limited

+44 (0)1772 687775 info@smp-ltd.co.uk www.smp-ltd.com  
Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

### PRODUCT DATASHEET

#### PSA Plant Oxygen Generator

???????



#### THIS PRODUCT HAS THE FOLLOWING OPTIONS:

No product options are available.

#### OVERVIEW

Pressure swing adsorption (PSA) is a technology used to separate some gas species from a mixture of gases under pressure according to the species' molecular characteristics and affinity for an adsorbent material. It operates at



## Submarine Manufacturing & Products Limited

+44 (0)1772 687775 info@smp-ltd.co.uk www.smp-ltd.com  
Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

near-ambient temperatures and differs significantly from cryogenic distillation techniques of gas separation.

**Please contact us to discuss your bespoke requirements and options.**

### DESCRIPTION

**Pressure swing adsorption (PSA) is a technology used to separate some gas species from a mixture of gases under pressure according to the species' molecular characteristics and affinity for an adsorbent material.**

It operates at near-ambient temperatures and differs significantly from cryogenic distillation techniques of gas separation. Specific adsorbent materials (e.g., zeolites, activated carbon, molecular sieves, etc.) are used as a trap, preferentially adsorbing the target gas species at high pressure. The process then swings to low pressure to desorb the adsorbed material.

### FEATURES

- Oxygen at any time and at any place
- Cost-effective through low operating costs
- Sophisticated and reliable technology
- Exact purity for every application
- No rental commitments as with bottles/bundles and tank systems
- No CO<sub>2</sub> pollution for the environment
- No hazardous goods
- No risk of explosion
- In-house placement and production

---

### ORDER THIS PRODUCT

To order this product or to request a price contact our UK sales team on **+44 (0)1772 687775**

Alternatively you can place a quote request through our website <http://www.smp-ltd.co.uk> or send an email to [sales@smp-ltd.co.uk](mailto:sales@smp-ltd.co.uk)