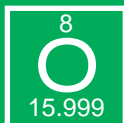




VPSA Oxygen Supply



Praxair VPSA Leadership Helps Drive Your Success



## Vacuum Pressure Swing Adsorption

More than 20 years ago, Praxair was the first to commercialize VPSA. We have over 200 VPSAs installed around the world. And we have developed the largest bulk gas supply network in North and South America.

So how did we get here and, more importantly, what does it mean for you?

With a long-term commitment to engineering, project execution, and operations expertise, Praxair is continually at the forefront of VPSA research—always developing new technologies to better meet the changing needs of customers like you.

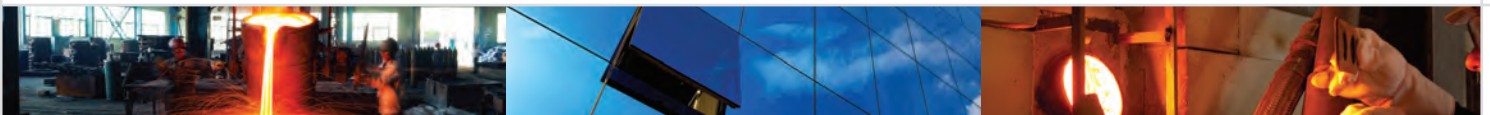
From plant design to facility operation, the result is more cost-effective oxygen systems that meet the most demanding requirements. We have experience installing VPSAs in a variety of industries with a wide range of flow rates, pressures and back-up supply systems. We pride ourselves on completing projects on time and to specification.

Praxair's commitment to our customers—and our track record of delivering on their needs—is what has enabled us to be a leader for over 100 years.

We're ready to put all of what we know to work for you.

### The VPSA line offers:

- Leading safety performance
- High reliability
- Remote monitoring and operation
- Liquid backup supply
- Robust design
- Low cost mode of supply
- Industry Leading Power efficiency
- Efficient turndown
- World-class project execution
- Modular plant design
- Compact plot size
- Minimal customer site prep
- Less installation time
- Reduced noise



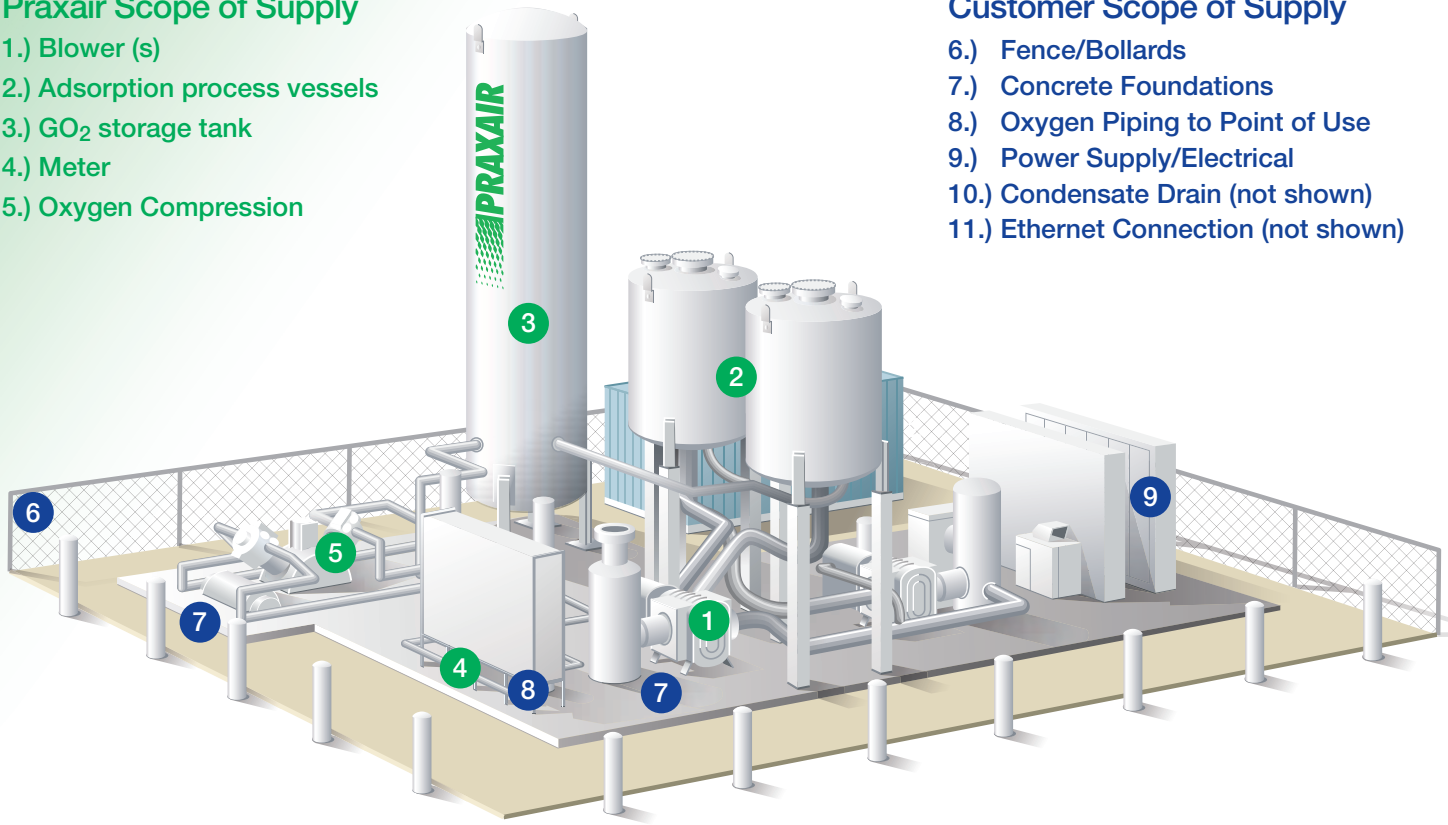
[www.praxair.com/smallonsite](http://www.praxair.com/smallonsite)

## Praxair Scope of Supply

- 1.) Blower (s)
- 2.) Adsorption process vessels
- 3.) GO<sub>2</sub> storage tank
- 4.) Meter
- 5.) Oxygen Compression

## Customer Scope of Supply

- 6.) Fence/Bollards
- 7.) Concrete Foundations
- 8.) Oxygen Piping to Point of Use
- 9.) Power Supply/Electrical
- 10.) Condensate Drain (not shown)
- 11.) Ethernet Connection (not shown)



For customers needing up to 218 standard tons per day of gaseous oxygen, the ideal supply is a Praxair Vacuum Pressure Swing Adsorption (VPSA) plant. Praxair's VPSA plants consist of a feed blower, molecular sieve beds, a vacuum blower, surge tank and silencers. These VPSA plants are highly packaged on skids which allows for very rapid field installation and minimum disruption to your site. The product delivery pressure is tailored to each customer's requirements.

Plant	V40 S-XL	VM62 S-XL	VM80 S-L	VM80XL	VM120 S-L	VM120 XL-XXL
Number of Beds	2	2	2	2	2	2
Product Flow (Contained Oxygen), cfh-ntp	62,000	95,000	115,000	135,000	190,000	218,000
Product Purity (%O <sub>2</sub> )	Up to 93%	Up to 93%	Up to 93%	Up to 93%	Up to 93%	Up to 93%
Product Pressure – Base Plant (psig)	1.5	1.5	1.5	4	4	3
Product Pressure with O <sub>2</sub> Compressor (psig)	10-390	10-390	10-390	10-390	10-390	10-390
Process Motor #1 (Feed)	250 HP	400 HP	1,250 HP	1,750 HP	2,500 HP	1,500 HP
Process Motor #2 (Vacuum)	500 HP	800 HP	(Only 1 Motor)	(Only 1 Motor)	(Only 1 Motor)	2,000 HP
Product Compressor Motor HP	30-450	75-700	100-1,000	100-1,000	125-1,500	150-1,500
Power Feed (Volts)	480	4,160	4,160	4,160	4,160	4,160
Layout (with O <sub>2</sub> Compressor, no Backup or Receivers)	40' x 80'	50' x 80'	65' x 90'	65' x 90'	65' x 100'	70' x 120'



# ONSITE INSITES

COSTA CHU  
ENGINEER, ENGINEERING  
DEPARTMENT OWENS-CORNING



*Downtime is not an option for our operation and that's one of the many reasons why I call Praxair first.*

“ As a global company, with far-reaching obligations, we need a supplier we can count on from end-to-end. Production, design, installation, supply, reliability, service – they are all critically (and equally) important to the success of our enterprise. That's why I call Praxair first. From the beginning of our engagement with Praxair we're working with Praxair engineers, not salespeople. I truly believe this has resulted in small onsite systems designed for our specific needs that function flawlessly from the start. Also, since each system is owned by Praxair, we enjoy flexibility and peace-of-mind on many levels. Calling Praxair first has always been the right decision for us. ”

For more info, call **1-800-PRAXAIR** or visit [www.praxair.com/smallonsite](http://www.praxair.com/smallonsite)



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