

# inatex.

YOUR ASSET. OUR PROTECTION.

*On site nitrogen production is a significant advantage for any operation requiring multiple tanks of liquid Nitrogen.*

*Less handling time, lower costs, safer projects.*



## NITROGEN ON DEMAND.

In conjunction with our technology partner, Inatex brings the latest in Nitrogen On Demand systems to the Australian market.

Nitrogen On Demand has applications in:

- ❖ Pipeline pigging and purging
- ❖ Platform packing and purging
- ❖ Tank packing and purging
- ❖ Enhanced oil recovery
- ❖ Gas lifting
- ❖ Coil tubing
- ❖ Under balance drilling
- ❖ Well clean up
- ❖ Well stimulation
- ❖ Drilling services
- ❖ Offshore support



Using patented membrane technology, our Nitrogen Production Units can produce to your exact purity requirements; up to 99.9% pure N<sub>2</sub>.

Inatex can provide on-site Nitrogen Production Units in several configurations, complete with all of the required compressors, generators and peripheral equipment; either containerised for in-situ use or truck mounted for added mobility. We will take care of operational support and logistics anywhere in Australia.

Boil-off in hot climates, downtime for cool down and tank switching, handling hazards, wasted nitrogen and the logistics required to transport liquid nitrogen in tanks all work against the efficient and cost effective use of liquid nitrogen in comparison to an on-site Nitrogen Production Unit.

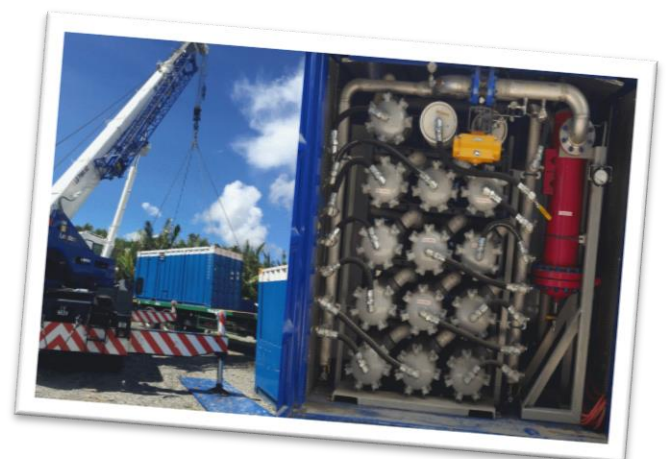
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*Bottled nitrogen, whilst relatively economical in smaller quantities, has disadvantages when used in high volumes or for extended campaigns.*

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Our Nitrogen On Demand units have the following characteristics:

- ❖ Unlimited run time – non-stop, 24 hour operations can be achieved if required
- ❖ Single units can produce at flow rates of up to 5,000 scfm, while multiple units can reach 18,000 scfm
- ❖ High pressures; up to 5000psig using a booster
- ❖ Leading, patented Membrane Technology producing Nitrogen to your required purity (up to 99.9% N<sub>2</sub>)
- ❖ The highest N<sub>2</sub> purity rates available at the lowest possible operating costs
- ❖ No downtime waiting for liquid nitrogen deliveries or while changing tanks
- ❖ No waste due to liquid N<sub>2</sub> boil off, especially in hot climates



## Nitrogen Production Units – Example Configurations

1500 SCFM MODEL	95% N <sub>2</sub> Purity	96% N <sub>2</sub> Purity	97% N <sub>2</sub> Purity	98% N <sub>2</sub> Purity	99% N <sub>2</sub> Purity	99.5% N <sub>2</sub> Purity
Product Flow (SCFM)	1,685.80	1,413.35	1,155.98	900.67	613.70	424.92
Product Flow (m <sup>3</sup> /hr)	2,705.71	2,268.43	1,855.35	1,445.57	984.99	681.99
Discharge Pressure from NPU (psig)	320	320	320	320	320	320
Discharge Pressure from NPU (bar g)	22	22	22	22	22	22

2000 SCFM MODEL	95% N <sub>2</sub> Purity	96% N <sub>2</sub> Purity	97% N <sub>2</sub> Purity	98% N <sub>2</sub> Purity	99% N <sub>2</sub> Purity	99.5% N <sub>2</sub> Purity
Product Flow (SCFM)	2,022.97	1,696.02	1,387.18	1,080.80	736.43	509.90
Product Flow (m <sup>3</sup> /hr)	3,246.86	2,722.11	2,226.43	1,734.68	1,181.98	818.39
Discharge Pressure from NPU (psig)	320	320	320	320	320	320
Discharge Pressure from NPU (bar g)	22	22	22	22	22	22

3000 SCFM MODEL	95% N <sub>2</sub> Purity	96% N <sub>2</sub> Purity	97% N <sub>2</sub> Purity	98% N <sub>2</sub> Purity	99% N <sub>2</sub> Purity	99.5% N <sub>2</sub> Purity
Product Flow (SCFM)	3,034.45	2,544.03	2,080.78	1,621.20	1,104.67	764.85
Product Flow (m <sup>3</sup> /hr)	4,870.29	4,083.17	3,339.66	2,602.03	1,772.99	1,227.58
Discharge Pressure from NPU (psig)	320	320	320	320	320	320
Discharge Pressure from NPU (bar g)	22	22	22	22	22	22

4000 SCFM MODEL	95% N <sub>2</sub> Purity	96% N <sub>2</sub> Purity	97% N <sub>2</sub> Purity	98% N <sub>2</sub> Purity	99% N <sub>2</sub> Purity	99.5% N <sub>2</sub> Purity
Product Flow (SCFM)	4,045.93	3,392.05	2,774.38	2,166.15	1,472.88	1,019.80
Product Flow (m <sup>3</sup> /hr)	6,493.72	5,444.24	4,452.89	3,476.67	2,363.98	1,636.78
Discharge Pressure from NPU (psig)	320	320	320	320	320	320
Discharge Pressure from NPU (bar g)	22	22	22	22	22	22

\* a 5,000 psig booster is available for higher pressure N<sub>2</sub> product requirements. Contact us for detailed specifications



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