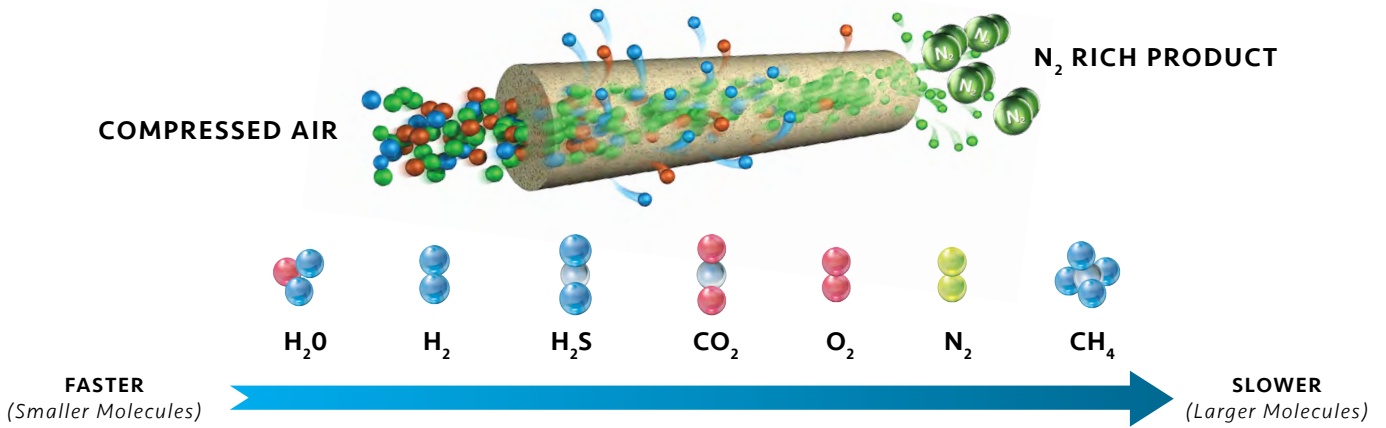


NITROGEN
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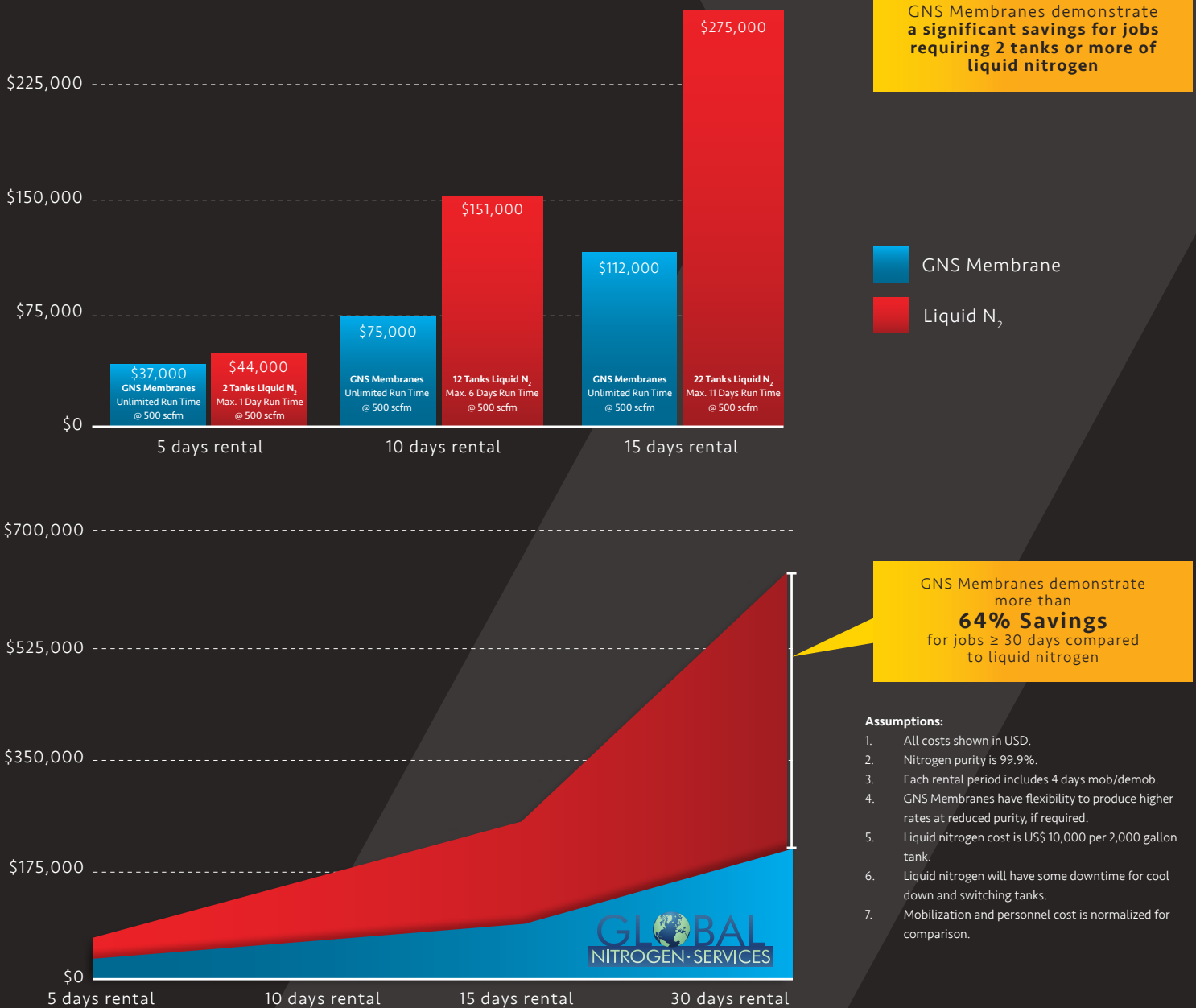


Compressed air is feed through a cylinder-shaped bundle of hollow fiber membranes, containing several hundred-thousand fibers, each about the size of a human hair. As the pressurized air enters one end of the fibers and flows to the opposite end of the module through the fiber bores, oxygen and water vapor flow out the sides of the fiber leaving the nitrogen and exit the end of the fibers thus producing Nitrogen to your exact purity requirements.



COST SAVINGS

MEMBRANE VS. LIQUID N₂ (East Malaysia / Borneo)



GNS MODEL - NPU 1500 SCFM	95% N ₂ Purity	96% N ₂ Purity	97% N ₂ Purity	98% N ₂ Purity	99% N ₂ Purity	99.5% N ₂ Purity
Product Flow (SCFM)	1,685.80	1,413.35	1,155.98	900.67	613.70	424.92
Product Flow (m ³ /hr)	2,705.71	2,268.43	1,855.35	1,445.57	984.99	681.99
Feed Air Required @ 350 PSIG (SCFM)	2,989.98	2,694.62	2,413.67	2,145.20	1,826.67	1,618.25
Discharge Pressure form NPU (psig)	320	320	320	320	320	320
Discharge Pressure form NPU (barg)	22	22	22	22	22	22
Equipement Required for this Package	QTY	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Fuel Cons (ltr/hr)
NPU 1500	1	4,572	2,438	2,591	10,900	-
Sullair 1525 Compressor	2	4,877	2,438	2,438	7,727	228
Genset	1	2,438	1,219	1,829	2,273	5
3000 Gallon Fuel Tank	1	2,971	2,438	2,896	2,273	-
Container - Tools and Hoses	1	3,048	2,438	2,591	3,181	-
*5,000 psig Booster for Higher Pressure N ₂ Products	1	6,096	2,438	29,26	16,789	114

GNS MODEL - NPU 2000 SCFM	95% N ₂ Purity	96% N ₂ Purity	97% N ₂ Purity	98% N ₂ Purity	99% N ₂ Purity	99.5% N ₂ Purity
Product Flow (SCFM)	2,022.97	1,696.02	1,387.18	1,080.80	736.43	509.90
Product Flow (m ³ /hr)	3,246.86	2,722.11	2,226.43	1,734.68	1,181.98	818.39
Feed Air Required @ 350 PSIG (SCFM)	3,587.77	3,233.35	2,896.40	2,563.43	2,192.02	1,941.83
Discharge Pressure form NPU (psig)	320	320	320	320	320	320
Discharge Pressure form NPU (barg)	22	22	22	22	22	22
Equipement Required for this Package	QTY	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Fuel Cons (ltr/hr)
NPU 2000	1	6,096	2,438	2,591	13,409	-
Sullair 1525 Compressor	3	4,877	2,438	2,438	7,727	342
Genset	1	2,438	1,219	1,829	2,273	5
3000 Gallon Fuel Tank	1	2,971	2,438	2,896	2,273	-
Container - Tools and Hoses	1	3,048	2,438	2,591	3,181	-
*5,000 psig Booster for Higher Pressure N ₂ Products	1	6,096	2,438	2,926	16,783	114

GNS MODEL - NPU 3000 SCFM	95% N ₂ Purity	96% N ₂ Purity	97% N ₂ Purity	98% N ₂ Purity	99% N ₂ Purity	99.5% N ₂ Purity
Product Flow (SCFM)	3,034.45	2,544.03	2,080.78	1,621.20	1,104.67	764.85
Product Flow (m ³ /hr)	4,870.29	4,083.17	3,339.66	2,602.03	1,772.99	1,227.58
Feed Air Required @ 350 PSIG (SCFM)	5,381.65	4,850.32	4,344.60	3,845.17	3,288.03	2,912.87
Discharge Pressure form NPU (psig)	320	320	320	320	320	320
Discharge Pressure form NPU (barg)	22	22	22	22	22	22
Equipement Required for this Package	QTY	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Fuel Cons (ltr/hr)
NPU 3000	1	6,096	2,438	2,591	13,409	-
Sullair 1525 Compressor	5	4,877	2,438	2,438	7,727	570
Genset	1	2,438	1,219	1,829	2,273	5
3000 Gallon Fuel Tank	1	2,971	2,438	2,896	2,273	-
Container - Tools and Hoses	1	3,048	2,438	2,591	3,181	-
*5,000 psig Booster for Higher Pressure N ₂ Products	1	6,096	2,438	2,926	16,783	114

GNS MODEL - NPU 4000 SCFM	95% N ₂ Purity	96% N ₂ Purity	97% N ₂ Purity	98% N ₂ Purity	99% N ₂ Purity	99.5% N ₂ 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 ³ /hr)	6,493.72	5,444.24	4,452.89	3,476.67	2,363.98	1,636.78
Feed Air Required @ 350 PSIG (SCFM)	7,175.53	6,467.08	5,792.80	5,126.88	4,384.05	3,883.83
Discharge Pressure form NPU (psig)	320	320	320	320	320	320
Discharge Pressure form NPU (barg)	22	22	22	22	22	22
Equipement Required for this Package	QTY	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Fuel Cons (ltr/hr)
NPU 4000	1	9,144	2,438	2,591	13,409	-
Sullair 1525 Compressor	6	4,877	2,438	2,438	7,727	684
Genset	1	2,438	1,219	1,829	2,273	5
3000 Gallon Fuel Tank	1	2,971	2,438	2,896	2,273	-
Container - Tools and Hoses	1	3,048	2,438	2,591	3,181	-
*5,000 psig Booster for Higher Pressure N ₂ Products	1	6,096	2,438	2,926	16,783	114



COIL TUBING PROJECT



NITROGEN ON DEMAND

APPLICATIONS

- COIL TUBING
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- WELL CLEAN-UP
- GAS LIFTING
- WELL STIMULATION
- PIPELINE PIGGING AND PURGING
- PLATFORM PRUGING
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