

# Nitrogen Production Unit 3000 cfm



**Airpac Rentals**  
Energy Industry Solutions



## Nitrogen Production Unit (NPU) 3000 cfm

Introducing our 3000 cfm Nitrogen Production Units (NPUs) for the energy industry.

Modular, portable and efficient, they provide an ideal solution for any project requiring a dependable and economical supply of nitrogen gas.

With the ability to transform standard compressed air into a safe and regulated supply of nitrogen, with a purity of up to 99.5% they will meet the demands of any application.

NPUs eliminate the need for costly nitrogen gas deliveries and / or storage issues with cylinders, offering an ideal alternative that is both convenient and cost-effective.

### Features

- Containerised nitrogen generator
- DNV 2.7-1 compliant
- Integrated controller
- High efficiency air pre-treatment
- Onboard purity alarms
- Ease of operation
- Minimal maintenance
- High efficiency separation membranes
- Integrated inlet manifold

# Technical Specifications

## Nitrogen Production Unit 3000 cfm

Max Feed Air Pressure	400 psig at skid edge	27.5 bar
Feed air flow required at membranes	5260 scfm	150 scmm*
Max membrane temperature	150°F	65°C
Membrane skid weight (estimated)	+/- 28,000lbs	12,730 kg
Maximum skid length	20 feet	6.10 m
Maximum skid width	8.0 feet	2.43 m
Maximum ambient temperature	130°F	55°C
Air pre-treatment	Water separation, coalescing, particulate and carbon filters	
Air re-heater	Electric 480V/380V, 3 phase, 60Hz/50Hz	
Control panel power	120/220 shore power of 24V	
Electrical instrumentation	Non-hazardous, NEMA	
Nitrogen flow meter	Local display, 4-20 mA outputs for data acquisition	
Maximum N2 product flow rate	3000 scfm (85 scmm) @ 95%	
Display screen alerts	N2 purity set-point alarm	
*150 scmm = 150 standard cubic meters per minute		
The reheater is set at 120°F (48.9°C) to 130°F (54.4°C) for operation at ambient temperatures of 100°F (37.8°C) or lower		

## Connections

### Air connections

- 5 x 3" NPTM 2" Fig 100 Hammer union inlets
- 1 x 3" NPTM 4" Fig 206 Hammer union outlet
- Both the above can be reconfigured as required

### Electrical connection

- 1 x 200 AMP 3 pole /4 wire waterproof surface mounted electrical inlet

### Condensate drain

- 1 x ½" BSP drain connection

# Unit Performance

## 3000 cfm Nitrogen Production Unit

NPU Inlet Pressure (psi)	Nitrogen Output Purity %	Membrane Inlet Temperature °C	Nitrogen Output Flow (scfm)	Inlet Feed Air (scfm)	Recovery Rate %
350	95	52	3000	5260	57
350	96	52	2550	4765	54
350	97	52	2100	4245	49
350	98	52	1700	3817	45
350	99	52	1200	3187	38

## Weights & Dimensions

	Metric	Imperial
Overall Length	6058mm	238"
Overall Width	2438mm	96"
Overall Height	2896mm	114"
Actual Weight	11, 340-Kg	25,000 lbs
Gross	14,000 Kg	30,385 lbs
Tare	6,250 Kg	13,779 lbs
Payload	7,750 Kg	17, 086 lbs

NB. Weights and dimensions are for guidance only; please contact your local Airpac Rentals office for individual asset details.

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Airpac Rentals UK is certified to  
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