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180K Nitrogen Converter NP-180

The product is a 180K LN2 nitrogen pumping system capable of pumping and vaporizing 180,000 SCFH at 70°F and pressures up to 10.000 PSI when supplied with LN2 from a suitable tank. The prime mover is a Detroit 60 Series diesel engine complete with a pyroban offshore system. The engine drives a gearbox which in turn drives a series of hydraulic pumps used to power a triplex pump fitted with 3 cold ends. Heat is extracted from both the hydraulic and coolant circuits and used to convert liquid gaseous nitrogen via a nitrogen vaporiser.

Conformity of the systems is throught the ATEX certification of the relevant components and extension ignition Hazard risk assessment of the non ATEX certified components and throught risk assessment of the completed assembly.



The system has been designed and manufactured for use in Zone II – 3G (NEC 500 Class 1Division 2)



II 3 G

Ex h IIA T3 Gc

Design Criteria

Engine horse power	500 BHP@2100RPM
Maximum working pressure	10,000 PSI
Ambient Operating temperatures	-20°C to +35°C

Dimensions		
Length	5080 mm	
Width	2438 mm	
Height	2670 mm	
Max load	13,000 Kgs	
Shackle size	9.5 t	

Olam energy

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The unit has been designed to meet the requirements of ATEX, PED and the Machinery Safety Directive and the structural design reviewed by DNV to 2.7-1 and EN12079.





The skid has a four point lift incorporating fork lift pockets and has been approved by DNV.

The skid has been load and drop tested.

Capacities	
Fuel	1,000 litres
Hydraulic Oil	800 litres
Triplex Lube Oil	115 litres