

NP-180

Nitrogen Pump Unit



APPLICATION

The 180K LN2 nitrogen pumping skid is a self contained unit capable of pumping and vaporising 180,000 SCFH at 20°C and pressures up to 10,000 PSI when supplied with LN2 from a suitable tank.

Maximum pump flow rate 3,000 SCFM.
Maximum pump pressure 10,000 PSI.

The primary components are a diesel engine which drives the hydraulic pumps via a gearbox, a hydraulic driven triplex pump, LN2 engine coolant vaporiser/heat exchanger and a certified steel lifting frame/skid which houses these components.

The unit is also equipped with a hydraulic tank, fuel tank, oil coolant heat exchangers, high quality hydraulic hoses, low and high pressure LN2 and GN2 stainless steel pipework and a single control panel for operating both the engine and pumping system.

The frame is a single open skid frame with protective crash beams, fork lift pockets and a four point lift system. The skid is manufactured from steel box section.

The paint specification and RAL number can be tailored to your individual requirements.

Features

- Open frame construction
- Unit complies with ATEX 2014/34/EU
- Approved by recognised certifying authority
- Approved for use in Zone II areas
- Exhaust gas cooling system
- Water cooled turbo
- Inlet flame trap
- Exhaust flame trap
- Engine water over temperature shutdown
- High exhaust temperature and low oil pressure shutdowns
- Engine overspeed shutdown
- GN2 overpressure shutdown

Approvals

- DNV 2.7-1
- ZONE II ATEX

Approx. Unit Weight / Dimensions

Length : 4,700 mm
Width : 2,438 mm
Height : 2,605 mm
Weight : 10,000 kg

