

SKD-75 Injection Unit

It's an autonomous unit, assembled on a portable platform that obtains liquid nitrogen from an external storage tank turning it into gaseous nitrogen for external use. The system is capable of supplying 90K Nitrogen SCFH up to 10,000 PSI as a gas at a temperature of approximately 70°F.



An external LN2 storage tank is used to provide LN2 to the booster pump at approximately 10-45 PSI of LN2 pressure. Low-pressure liquid nitrogen is applied to the triplex pump (pressurized high pressure) up to 10,000 PSI and is gasified in a forced air ambient vaporizer that use thermal energy from the diesel engine exhaust and the high velocity Ambient air to turn liquid into gas.

The mounted diesel engine on the platform also provides power to the hydraulic system and lubricating oil system. To maintain security and simplicity of operation, controls, gauges and indicators are mounted inside the control box to make easier the operator access. All diesel engine starting, system activation, supervision of the operation and the shutdown are made from this single point.

Ranges

@70°F Maximum Flow	90,000 SCFH
Maximum working pressure	10,000 MAWP
Weight (approximate)	13,500 Lbs
Length (approximate)	13 Ft, 11 in.
Width (approximate)	8 ft
Height (approximate)	8ft, 3 in.



Features

- Compact and lightweight design.
- Material options for the structure of the unit.
- Aluminum, Stainless Steel or Carbon Steel.
- Designed to make easier the operation and maintenance.

Unit Components

350 HP @2100 RPM Cummins Engine

3-ICP-100 Triplex pump with termination of 1.25" 1.25"

1 x 2" x 4.5" Centrifugal Pump

Mechanical Seal or Sealless Magnetic Unit Feature

Vaporizer •90,000 SCFH Forced air Vaporizer

