## COILED TUBING OPERATIONS: NITROGEN EQUIPMENT



Coiled Tubing Equipment Catalogue Nitrogen Equipment

## **NITROGEN PUMPER (180000 SCFH)**

Hydra Rig high-pressure nitrogen pumps are specifically designed to deliver high flow rates at high pressure while providing exceptional low flow rate turndown. These pumps utilize tapered roller bearings and a pressure feed lubrication system for positive lubrication, insuring increased pump life over conventional pumps.

Hydra Rig high pressure nitrogen pumps consist of three components, the power end, cold ends and gearbox. These can be customized to fit your nitrogen pumping requirements. Special features are:

- · Greater range of flow
- Cold end suppression system for greater turndown ratio
- · Easy maintenance
- · Continuous or intermittent duty
- Will operate at up to 200 input horsepower
- Rapid cool-down
- Rugged construction
- Balanced design for smooth operation at high and low speeds



### NITROGEN PUMP

# **Specifications - Nitrogen System**

**Working Pressure:** 15,000 psi with 1 1/4 " Cold Ends 10,000 psi with 1 5/8" Cold Ends

**Hydrostatic Test:** 22,500 psi (1,551 bars)

Flow Rates (Maximum):

Ambient Temperature Operation (Minimum):

Ambient Temperature Operation (Maximum):

Liquid Nitrogen Pump:

Cold End Bore:

Stroke:

1.38 in. (3.505cm)

Maximum Speed:

1.000 scfh
-20°F (-29°C)

Hydra Rig 200

Hydra Rig 200

1.625 in. (4.128 cm)

1.38 in. (3.505cm)

 Maximum Speed:
 1,050 rev/min

 Vaporizer Pot:
 Hydra Rig Maxey

 Capacity:
 3,000 scfm

 Boost Pump:
 100 gal/min

 Coolant:
 120 gal/min

COILED TUBING OPERATIONS: NITROGEN EQUIPMENT



### Coiled Tubing Equipment Catalogue Nitrogen Equipment

### **General Specifications**

	Weigl	hts	
Nitrogen Unit (full water and oil)	19,	500 lb	8,845 kg
	Dimens		
Height	107 in.		272 cm
Length	156 in.		396 cm
Width	96 in.		244 cm
	Engine (Caterp		
Speed	2,100 rev/min		
Horse Power	550		
	Contr		
Engine Throttle	Air		
Fuel Kill/Ignition	Air		
Emergency Engine Kill		Air	
	Engine 1		
SAE Viscosity Grade	SAE 15W40		
API Classification	CH-4, CG-4, CF-4, CF, SJ, SH		
Military Specification	Exceeds MIL-L-2104D		
Sulfated Ash	1.3 percent		
	Fue	l	
Fuel must meet propert	ies of ASTM design	ation D975 of both gra	des 1-D and 2-D.
	Hydraulic	Pumps	
Nitrogen Pump Hydrostat		100 gal/min /5,500 psi	
Heat Builder		90 gal/min / 5,000 psi	
Coolant Hydraulic Pump		15 gal/min / 2,500 psi	
Boost Hydraulic Pump		10 gal/min / 2,500 psi	
	Capaci	ties	-
Fuel Tank		100 gal (379 L)	
Vaporizer Coolant System		50 gal (180 L)	
Hydraulic Oil		50 gal (152 L)	
Vaporizer		180,000 scfh	
Triplex Lube System		10 gal (37.9 L)	

www.oiltestgroup.com www.oiltestgroup.com