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):

120°F (-29°C)

Ambient Temperature Operation (Maximum):

120°F (49°C)

Hydra Rig 200

Cold End Bore:

1.625 in. (4.128 cm)

Stroke:

1.38 in. (3.505cm)

Maximum Speed:

1,050 rev/min

 Maximum Speed:
 1,050 rev/min

 Vaporizer Pot:
 Hydra Rig Maxey

 Capacity:
 3,000 scfm

 Boost Pump:
 100 gal/min

 Coolant:
 120 gal/min

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General Specifications

	Weig	nts	
Nitrogen Unit (full water and oil) 19,		500 lb	8,845 kg
	Dimens	ions	
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		
GARAK : G I	Oil		0
SAE Viscosity Grade API Classification	SAE 15W40		
	CH-4, CG-4, CF-4, CF, SJ, SH Exceeds MIL-L-2104D		
Military Specification Sulfated Ash	1.3 percent		
Surfated Ash	Fue		ι
Fuel must meet propert		-	dos 1 D and 2 D
i dei must meet propert	Hydraulic		des 1-D and 2-D.
Nitrogen Pump Hydrostat		100 gal/min /5,500 psi	
<u> </u>		<u> </u>	
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)	

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