



NATIONAL
TANK & EQUIPMENT

12" Vac Assist Diesel-Driven Pump 100-1012

Pump Specifications

Make	Cornell
Model	12NNT
Size	12" x 12" (305 mm x 305 mm)
Impeller Diameter	14" (356 mm)
Impeller Type	Enclosed
Max Flow	6,300 gpm
Max Head	225 feet (69 meters)
Max. Operating Speed	1,900 RPM
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	200 psi (1,379 kPa)
Maximum Solid Size	4 inch

Engine Specifications

FT4 Engine Type	John Deere 4045 FT4
Displacement	274.6 cu. in. (4.5 l)
Fuel Consumption	14 gph (53 l/h) @ 1,800 rpm
Continuous HP	173 hp (127 kW) @ 1,800 rpm
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	DEF
Safety Shut-Down Switches	Low oil pressure, high temp
Instrument Panel	Oil pressure & temp gauge, ammeter, hourmeter, tachometer

Priming System

Priming System	Diesel driven diaphragm-style vacuum pump
Air Removal Cap.	50 cfm (.02 cms)
Priming Chamber	Single chamber with positive sealing air separation PosiValve w/stainless steel float ball & linkage
Discharge Check Valve	Swing type, ductile iron w/Buna-N disc (Viton optional)



Features & Benefits

Indefinite run-dry capability
Extreme flow technology
Environmentally safe priming system
Auto-start controls
Skid options available

Package Specifications

Fuel Capacity	196 U.S. gallons
Control Panel	Controls Inc CX - Programmable Panel
Operating Speed (Max)	1,900 rpm
Weight (Dry/Wet)	8,000 / 9,314 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

Materials of Construction

Impeller	CA6NM Stainless Steel
Shaft	17-4 PH Stainless Steel
Wear Ring	Cast Iron
Suction Cover	Cast Iron
Volute Casing	Cast Iron
Backplate/Bracket	Cast Iron
Mechanical Seal	Cycloseal design. Tungsten vs. Silicon Carbide seal faces, Viton elastomers, 300 series stainless steel hardware & spring, seal system designed for dry running

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Performance Curve

