Pump Specifications

Make	Cornell
Model	8NNT
Size	8" x 8" (203 mm x 203 mm)
Impeller Diameter	14" (356 mm)
Impeller Type	Enclosed
Max Flow	4,630 gpm (1,052 m³/h)
Max Head	258 feet (79 meters)
Max. Operating Speed	1,900 rpm
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	225 psi (1,551 kPa)
Maximum Solid Size	3.375 inch

Engine Specifications

FT4 Engine Type	John Deere 4045 FT4
Displacement	274.6 cu. in. (4.5 l)
Fuel Consumption	0.12 gph (0.454 l/h)
Continuous HP	173 hp (127 kW) @ 2,400 rpm
Peak Intermittent HP Rating	173 hp (127 kW)
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, ampmeter, hourmeter, tachometer

Priming System

Priming System	Mechanically 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

Features & Benefits

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

Package Specifications

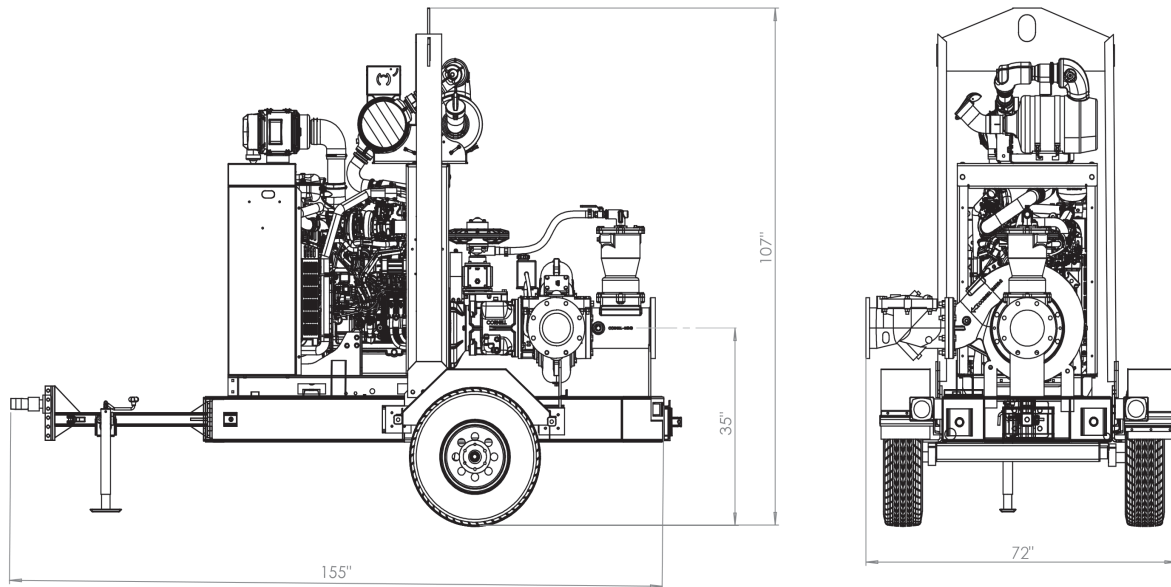|	
Fuel Capacity	135 U.S. gallons
Control Panel	Controls Inc CX - Programmable Panel
Operating Speed (Max)	1,900 rpm
Weight (Dry)	5,740 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

Materials of Construction

Impeller	Cast Iron
Shaft	Stressproof Steel
Shalft Sleeve	416 Stainless Steel
Wear Ring	Cast Iron
Suction Cover	Cast Iron
Volute	Cast Iron
Bearing Frame	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

Drawings & images are for representation only. Actual product may vary.

Mechanical Dimensions

107"

3.5"

155"

72"

Performance Curve

	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N_S	Suction	Discharge	No. Vanes
Performances shown are for S.G. 1.0 60°F water, close-coupled configuration. Other mounting styles or S.G. may require curve adjustments.	VARIOUS	14.00"	ENCLOSED	SINGLE	3.375"	2450	8"	8"	2

Cornell Pump Company • Clackamas, Oregon

01	08/17/15	CTG	8NNT	CURVE NO:
00	01/15/00		TYPE :SOLIDS HANDLING	**8NNTVA**