

Appalachian 1212JD

Self-Priming Surface Pump



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Appalachian 1212JD

Diesel / 156 HP / 7,210 GPM / 153' Head



Appalachian Series

The pump system consists of a centrifugal pump and a separator, which enables air to be separated from the liquid and be sucked by a vacuum pump - making automatic priming possible. Even with suction heights of several meters the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the semi-open impeller, the Appalachian range is also suitable for pumping liquids with solids in suspension.

Applications

The Appalachian series pump is designed to withstand toughest applications and delivers best in class pumping efficiency. One of the most common area of utilization is the municipal segment where reliability, efficiency and versatility is the key to provide a customized solution. Other suitable applications within Construction and General dewatering, Oil & Gas as well as General Industry are ideal for the Appalachian 1212JD pump. Self-priming pumps by DAE Pumps are packed with features that not only meet but exceed the needs of our customers.

Test according to UNI EN ISO 9906 standard - level 2
Test liquid: clean water, density 62.43 lb/ft (8.345 lb/gal)
Losses from priming system and check valve not included

Speed	Impeller Dia.	Solids Dia.	Ns	Suction	Discharge	No. Vanes
Various	17" / 440 mm	3.5" / 89 mm	1320 rpm	12" / 300 mm	12" / 300 mm	2

Benefits

Efficiency

The 17" impeller with 74% efficiency at B.E.P. provides best pumping result with minimal efforts

Solid's handling

Closed impeller type with solids handling capability of 3.5" for trouble free operation

Footprint

Best in class footprint of 149" x 49" (less check valve)

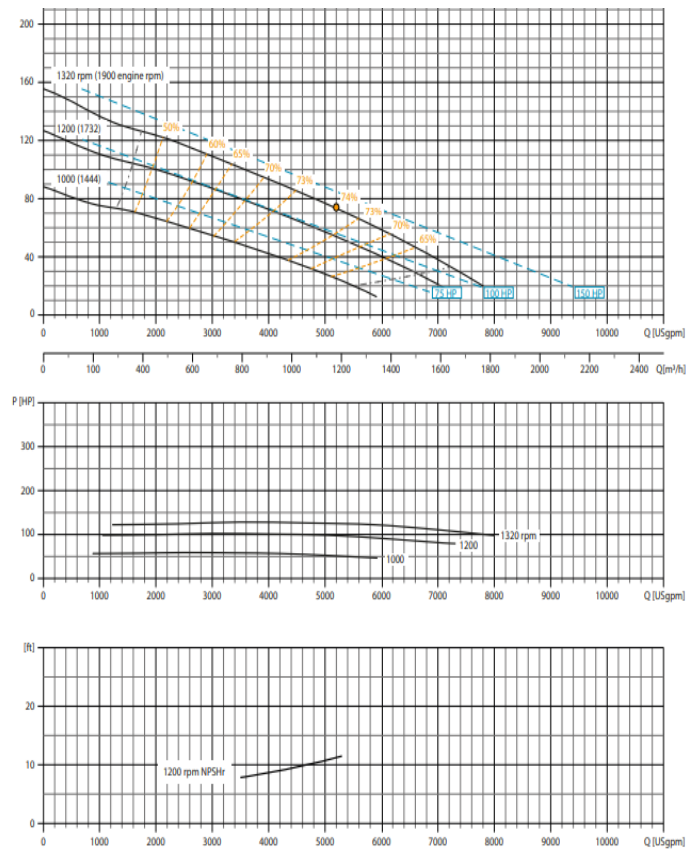
Serviceability

Large Door Panels for fast service

Polyethylene Fuel tank

Corrosion-free PE tank provides longer lifetime and avoids tank cleaning due to oxidation

Performance Curve



Technical data

Pump

Model	Appalachian 1212JD
Qmax	7,210 GPM
Hmax	153 ft
Q max eff.	5,200 GPM
Eff. max	74 %
Suction port	12" Flanged - ANSI class 150
Delivery port	12" Flanged - ANSI class 150
Impeller type	Enclosed, 2 vane
Solids handling	3.5"
Material	G11
Casing	ASTM A536 ductile iron
Impeller	ASTM A743 CA6NM
Wear ring	ASTM A48 Class 20 cast iron
Shaft	AISI 630 stainless steel
Mechanical seal	Silicon carbide vs Silicon Carbide
Elastomers	VITON
Check Valve	ASTM A536 ductile iron + NBR rubber flap
Separator	Fabricated Steel

Priming system

Vacuum pump	V22
Vacuum pump type	Diaphragm
Nominal air capacity	50.0 cfm
Max vacuum	- 26.6 inHg
Drives	Link belt

Engine

Make	John Deere
Model	4045HFC06
Type	Diesel turbo common rail
Displacement	275 in ³
No. cylinders	4
Cooling	Liquid with radiator
Rpm type	Variable
Standard speed	1,900 rpm
US emissions	EPA Tier 4F
Starting	Electric
Engine system voltage	14 V
Engine Power Rating	156 HP

Control panel

Model	PW 750
Manual operation	
Automatic operation: start-stop with transducers or floats	
FleetLink Optional	

Arrangement

Technical data	
Material	ASTM A36 steel
Coatings	Epoxy powder, average thickness of 3 MIL
Features	Lifting beam. Forklift pockets. Lockable doors. Optional Soundproof canopy
Battery	Acid charge Pb-Ca maintenance free 12V – 1150 CCA
Fuel Tank Capacity	200 Gallon
Fuel Consumption	7.8 US Gal/hr @ 1900 RPM @ 70% eff.
Dry Weight	8460 lbs (Enclosed)
Wet Weight	9975 lbs (Enclosed)

Dimensional Drawing

Enclosed

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