

UP SERIES CATALOG

DIESEL PUMP PACKAGES



Fall 2015



UP SERIES DIESEL PACKAGES

The UP Series of diesel package pumps is a platform based on standard package sizes that can be configured with various engines, pumps, trailer option and enclosure options. Designed for maximum configurability, the UP series options can be included in the original product order or added as needed at a later date. The enclosure is designed to be easily removed, making easy access to the entire assembly, reducing service time.

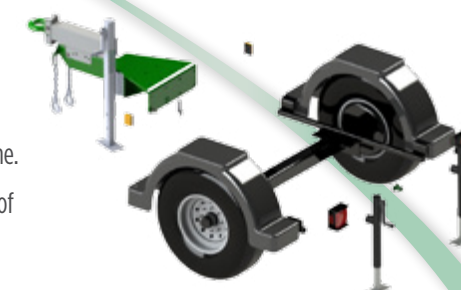


Designed for longer life

- Aluminum enclosure
- Durable plastic door
- Fully powder coated
- Vibration Isolation



Add a trailer kit to the skid as needs change over time. Choose from on-road or off-road kits with a variety of options and accessories.



Accessories

- Tongue mounted toolbox
- Tongue mounted spare tire
- Internal lighting
- Skid fork tubes



External spool connections on enclosed units



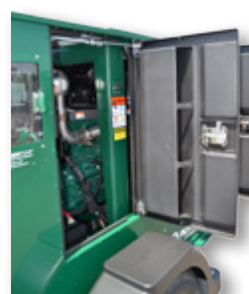
Bolt-on, drop-leg front jack



Sliding panel door

Features for Access & Usability

Heavy-duty TPO doors



Vibration isolation



Improved fuel cap



Add an enclosure to an open unit for weather protection or sound attenuation.

The enclosure is easily removed to increase access and reduce service time.





Specification Sheet for Model PP44S10L71-404D-22T

Pioneer Prime - Vacuum Assisted
Centrifugal Pump, Diesel-Driven Package

Optional Sound Attenuated Enclosure

Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

Pump Specifications

Pump Size	4 x 4 inches	100 x 100
Max Flow	1,600 USgpm	370 m³/h
Max Head	150 feet	50 metres
Solids Size	3 inches	76 mm

Options & Accessories

Trailers	Control Panel
Off-Road Trailer (No fenders or lights, No VIN)	Lofa 750
On-Road Trailer – Surge Brakes (DOT ready, VIN)	
On-Road Trailer – Electric Brakes (DOT ready, VIN)	
Enclosures	Accessories
Weather enclosure Kit	Interior Lights
Sound attenuated canopy Kit	Skid Tubes
Premium sound attenuated canopy Kit	Solar Charger
	Spare Tire Carrier
	Toolbox

Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu



Engine Specifications

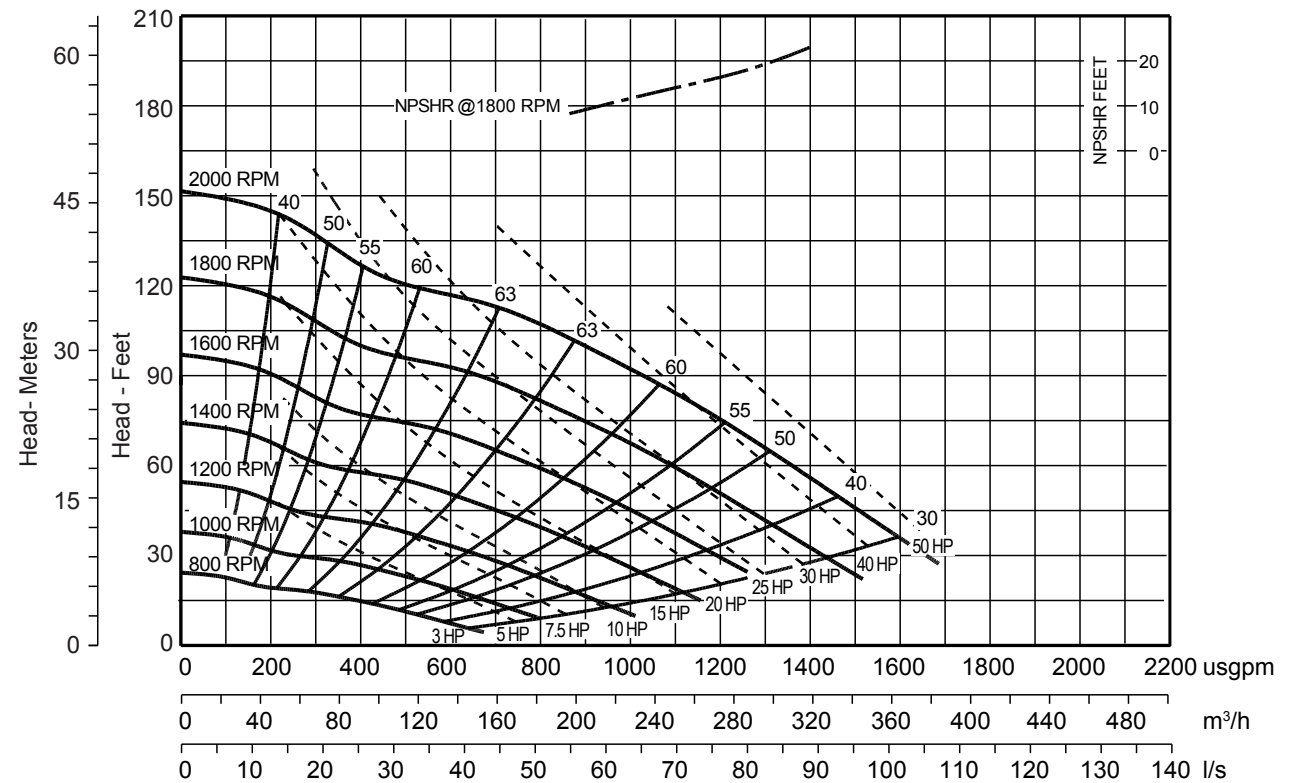
Engine Type	Perkins 404D-22T, 4-Cylinder Diesel, Interim Tier 4
Displacement	135 Cu. In. (2.2 L)
Fuel Tank, Typical	110 US Gal (416.4 L)
Fuel Consumption @ 1800 RPM	2.6 GPH (9.8 L/H) (Full Load)
Continuous Horsepower	41 HP @ 1800 RPM
Operating Time	41 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc
Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage

Performance Curve

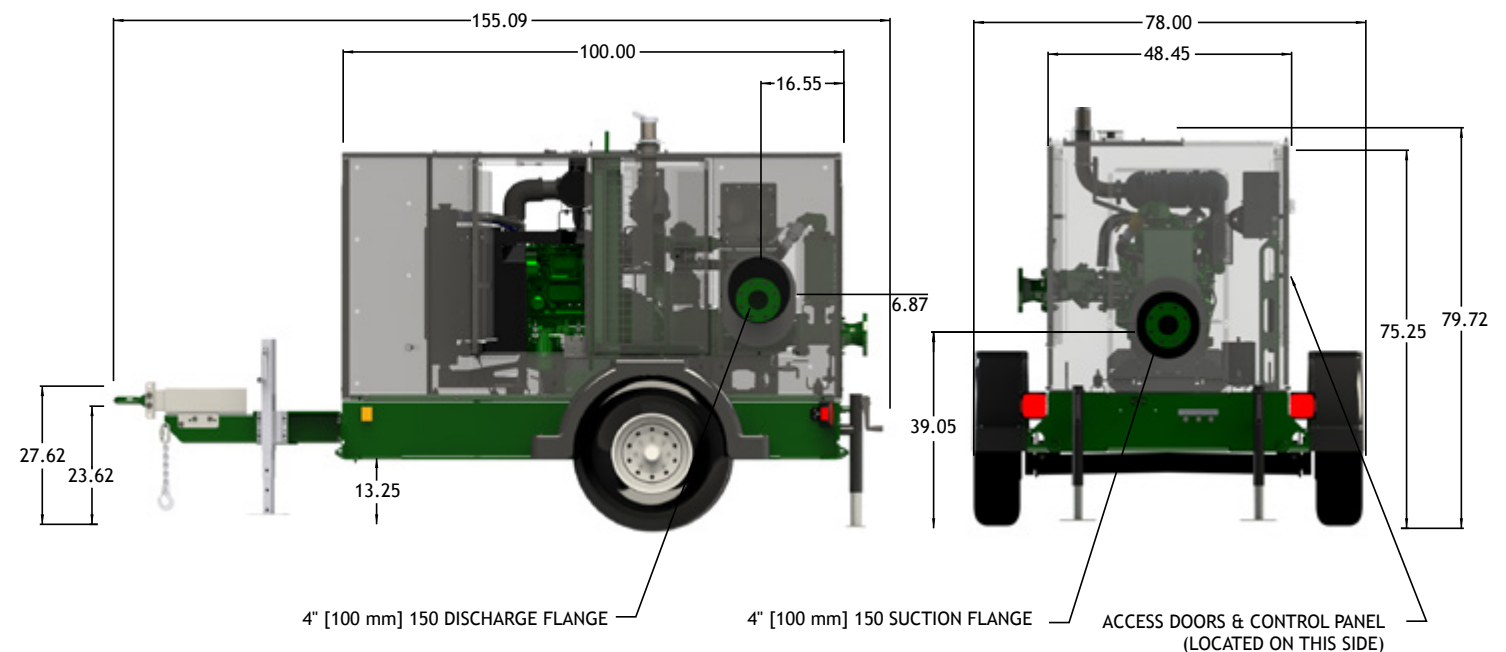
Model: PP44S10	Impeller Dia. 10.0"	Solids Size: 3.0"	Curve # 07903HQ
----------------	---------------------	-------------------	-----------------



Mechanical Drawing

PP44S10L71-404D-22T

Skid, Dry	2910 lbs
Skid, Wet	3603 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	330 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.



Specification Sheet for Model
PP44S10L71-D2.9L

Pioneer Prime - Vacuum Assisted
Centrifugal Pump, Diesel-Driven Package

Optional Sound Attenuated Enclosure

Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

Pump Specifications

Pump Size	4 x 4 inches	100 x 100
Max Flow	1,600 USgpm	370 m³/h
Max Head	150 feet	50 metres
Solids Size	3 inches	76 mm

Options & Accessories

Trailers	Control Panel
Off-Road Trailer (Idle Axle, No Lights, No VIN)	Lofa 750
On-Road Trailer – Surge Brakes (DOT ready, VIN)	
On-Road Trailer – Electric Brakes (DOT ready, VIN)	Accessories
	Interior Lights
	Skid Tubes
	Solar Charger
	Spare Tire Carrier
	Toolbox
Enclosures	
Weather enclosure kit	
Sound attenuated canopy Kit	
Premium sound attenuated canopy Kit	

Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu



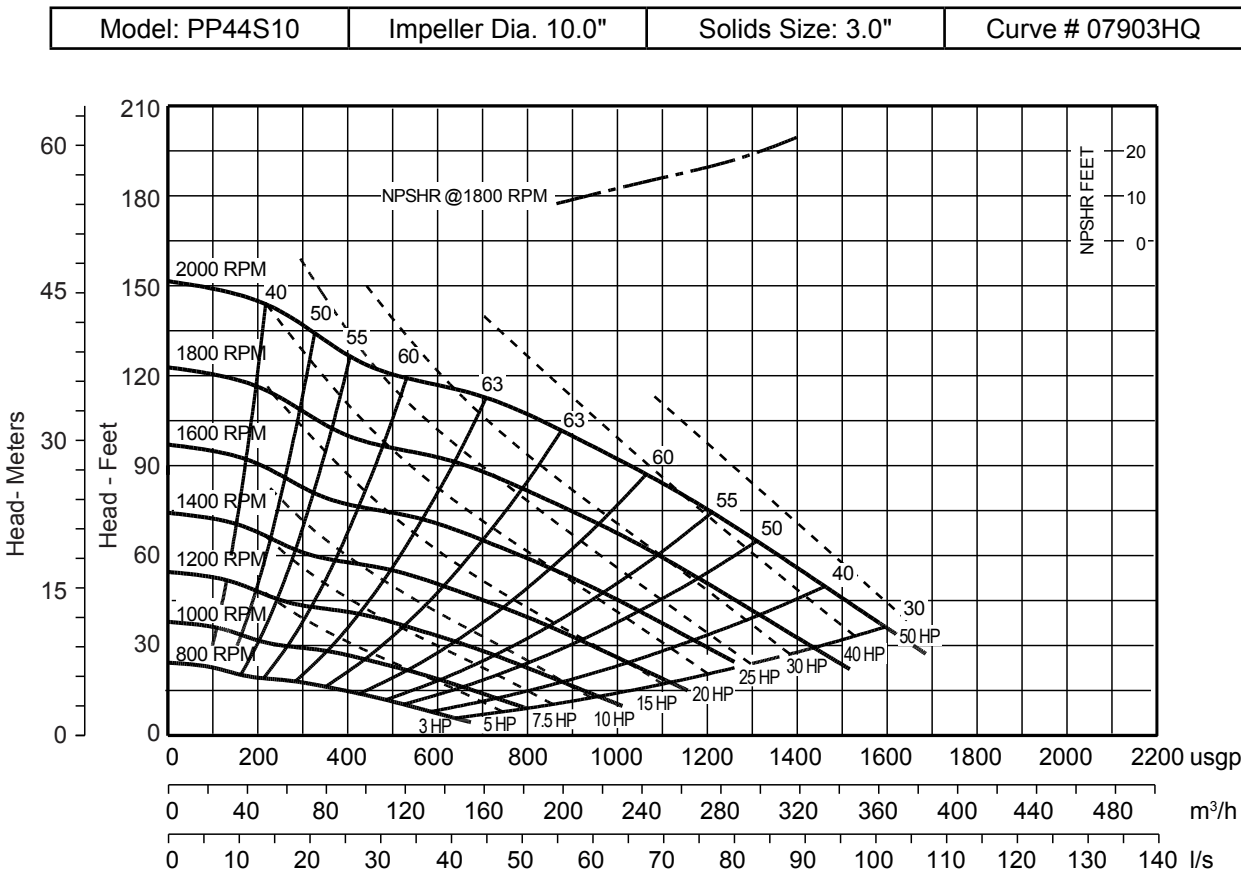
Engine Specifications

Engine Type	Deutz D2.9L, 4-Cylinder Diesel Final Tier 4
Displacement	177 Cu. In. (2.9 L)
Fuel Tank, Typical	110 US Gal (416.4 L)
Fuel Consumption @ 1800 RPM	1.95 GPH (7.38 L/H) (Full Load)
Continuous Horsepower	36 HP @ 1800 RPM
Operating Time	56 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc
Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage

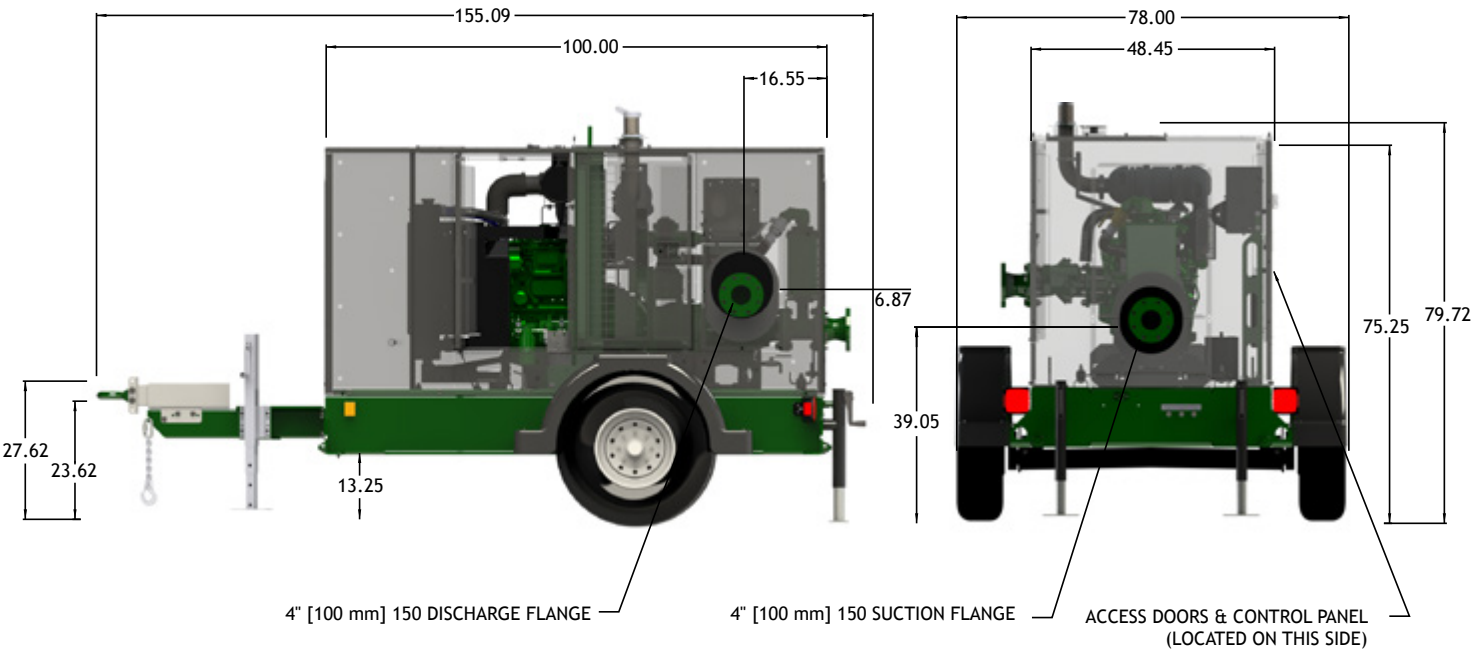
Performance Curve



Mechanical Drawing

PP44S10L71-D2.9L

Skid, Dry	3290 lbs
Skid, Wet	3983 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	330 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.



Specification Sheet for Model
PP66S12L71-TD2.9L

Pioneer Prime - Vacuum Assisted
Centrifugal Pump, Diesel-Driven Package

Optional Sound Attenuated Enclosure

Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

Pump Specifications

Pump Size	6 x 6 inches	150 x 150
Max Flow	3,200 USgpm	730 m³/h
Max Head	130 feet	40 metres
Solids Size	3 inches	76 mm

Options & Accessories

Trailers	Control Panel
Off-Road Trailer (No fenders or lights, No VIN)	Lofa 750
On-Road Trailer – Surge Brakes (DOT ready, VIN)	
On-Road Trailer – Electric Brakes (DOT ready, VIN)	Accessories
	Interior Lights
	Skid Tubes
	Solar Charger
	Spare Tire Carrier
	Toolbox

Enclosures

Weather enclosure kit
Sound attenuated canopy Kit
Premium sound attenuated canopy Kit

Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu



Engine Specifications

Engine Type	Deutz TD2.9L 4 Cylinder Diesel Final Tier 4
Displacement	177 Cu. In. (2.9 L)
Fuel Tank, Typical	110 US Gal (416.4 L)
Fuel Consumption @ 1800 RPM	3.67 GPH (13.9 L/H) (Full Load)
Continuous Horsepower	58 HP @ 1800 RPM
Operating Time	30 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

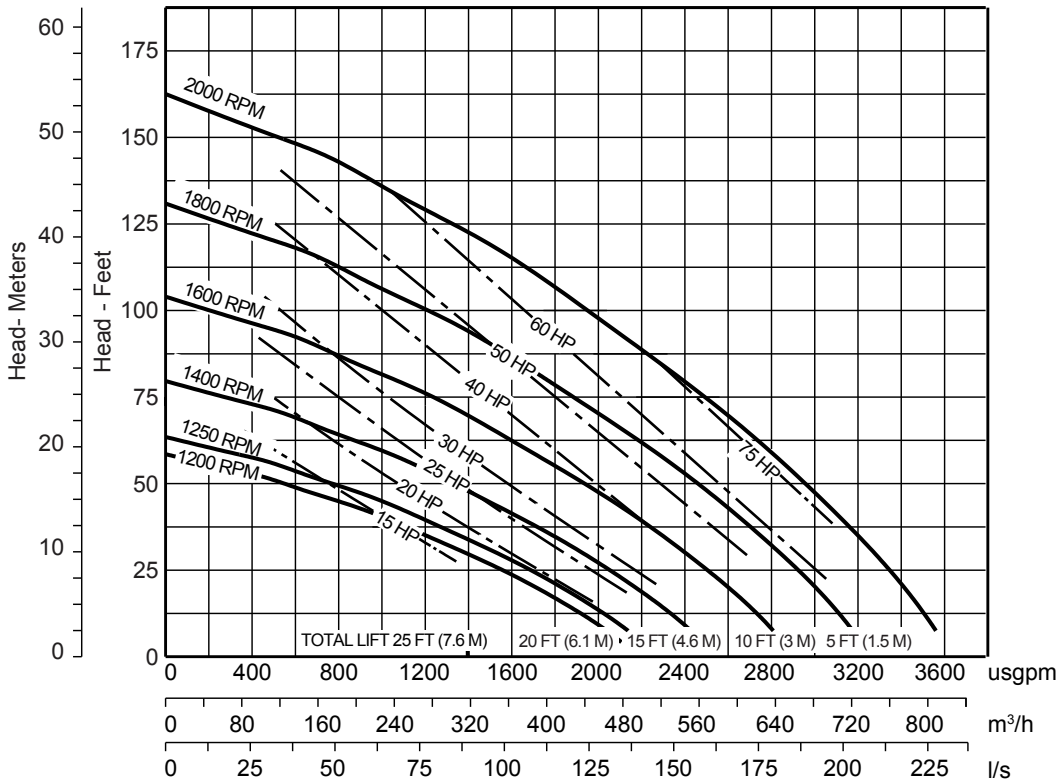
UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage
----------------	---

Performance Curve

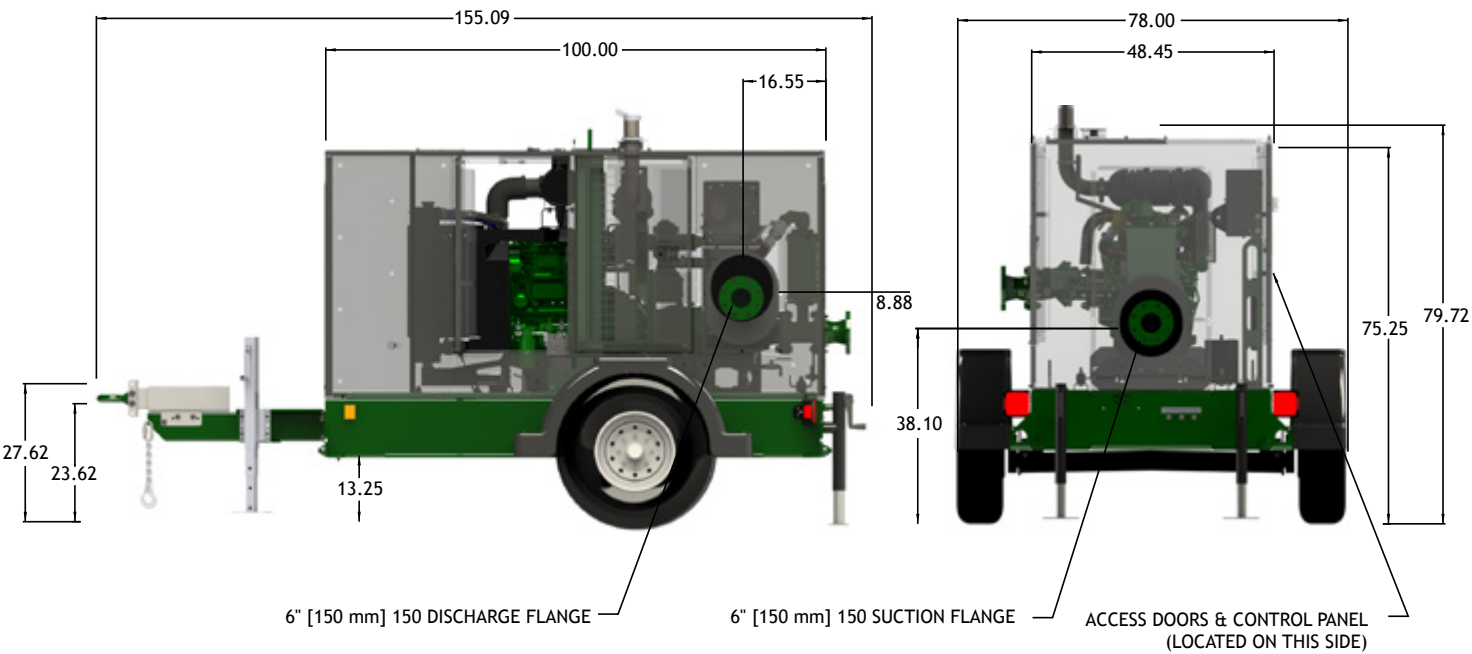
Model: PP66S12	Impeller Dia. 11.0"	Solids Size: 3.0"	Curve # A928HQ
----------------	---------------------	-------------------	----------------



Mechanical Drawing

PP66S12L71-TD2.9L

Skid, Dry	3755 lbs
Skid, Wet	4448 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	330 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.



Specification Sheet for Model PP66S12-1104-44T

Pioneer Prime - Vacuum Assisted
Centrifugal Pump, Diesel-Driven Package

Optional Sound Attenuated Enclosure

Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

Pump Specifications

Pump Size	6 x 6 inches	150 x 150
Max Flow	3,200 USgpm	730 m³/h
Max Head	130 feet	40 metres
Solids Size	3 inches	76 mm

Options & Accessories

Trailers	Control Panel
Off-Road Trailer (No fenders or lights, No VIN)	Lofa 750
On-Road Trailer – Surge Brakes (DOT ready, VIN)	
On-Road Trailer – Electric Brakes (DOT ready, VIN)	
Enclosures	Accessories
Weather enclosure kit	Interior Lights
Sound attenuated canopy Kit	Skid Tubes
Premium sound attenuated canopy Kit	Solar Charger
	Spare Tire Carrier
	Toolbox

Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu



Engine Specifications

Engine Type	Perkins 1104D-44T, 4-Cylinder Diesel Tier 3
Displacement	269 Cu. In. (4.4 L)
Fuel Tank, Typical	110 US Gal (416.4 L)
Fuel Consumption @ 1800 RPM	4.91 GPH (18.6 L/H) (Full Load)
Continuous Horsepower	68 HP @ 1800 RPM
Operating Time	22 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc
Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage

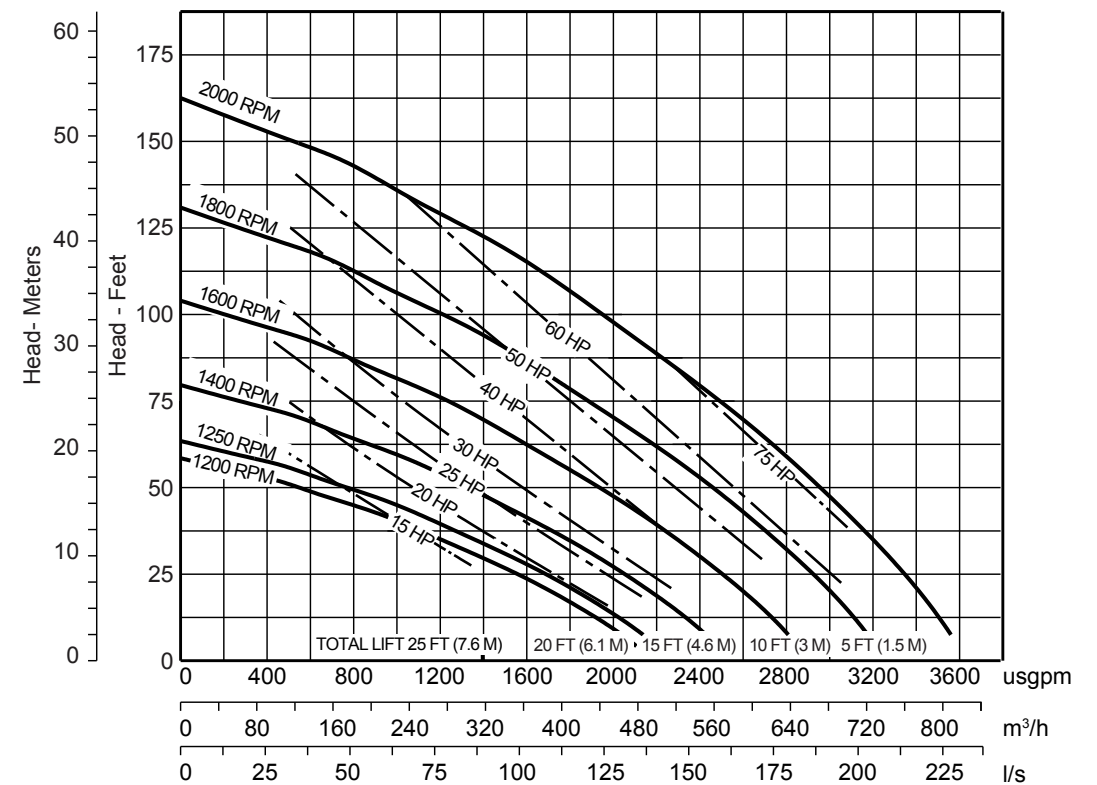
Performance Curve

Model: PP66S12

Impeller Dia. 11.0"

Solids Size: 3.0"

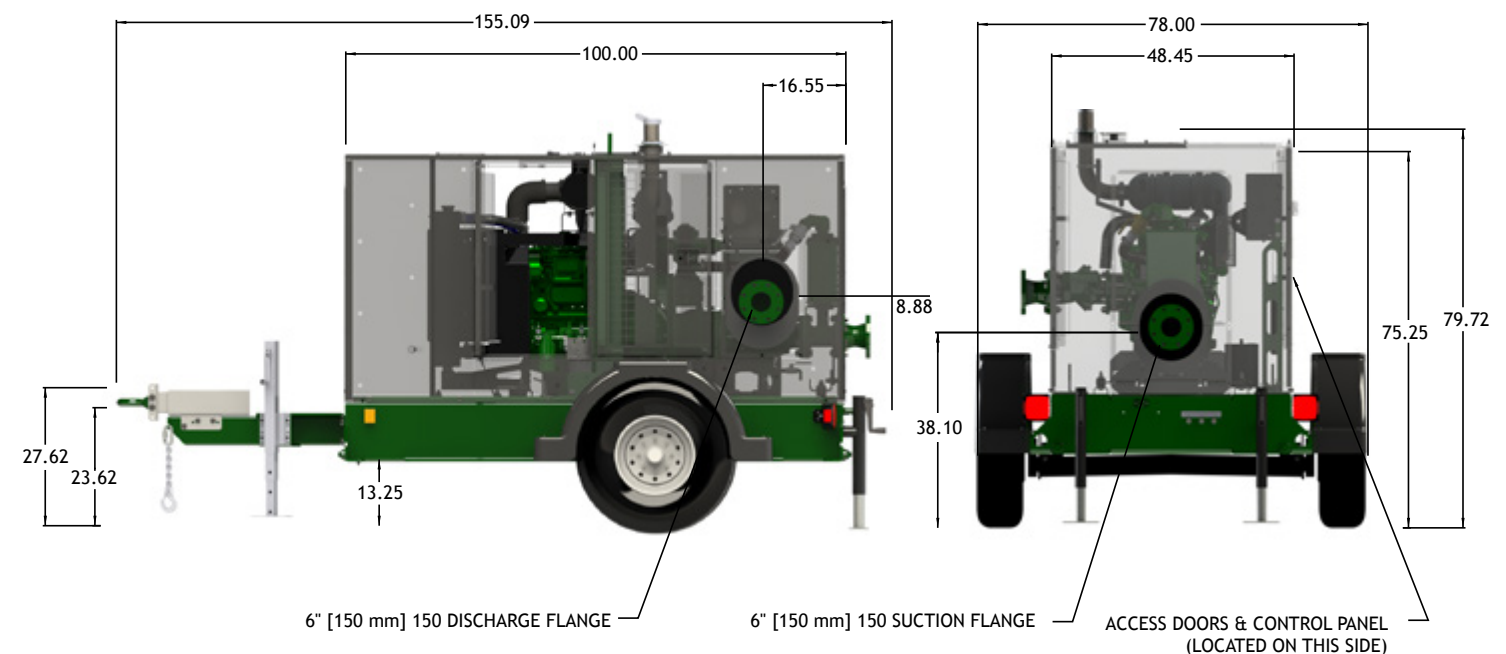
Curve # A928HQ



Mechanical Drawing

PP66S12-1104-44T

Skid, Dry	4005 lbs
Skid, Wet	4698 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	330 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.



Specification Sheet for Model
PP66S12L71-4045TF290

Pioneer Prime - Vacuum Assisted
Centrifugal Pump, Diesel-Driven Package
Optional Sound Attenuated Enclosure

Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

Pump Specifications

Pump Size	6 x 6 inches	150 x 150
Max Flow	3,200 USgpm	730 m³/h
Max Head	130 feet	40 metres
Solids Size	3 inches	76 mm

Options & Accessories

Trailers	Control Panel
Off-Road Trailer (No fenders or lights, No VIN)	Lofa 750
On-Road Trailer – Surge Brakes (DOT ready, VIN)	
On-Road Trailer – Electric Brakes (DOT ready, VIN)	Accessories
	Interior Lights
	Skid Tubes
	Solar Charger
	Spare Tire Carrier
	Toolbox

Enclosures

Weather enclosure kit

Sound attenuated canopy Kit

Premium sound attenuated canopy Kit

Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu



Engine Specifications

Engine Type	John Deere 4045TF290 4 Cylinder Diesel Interim Tier 4
Displacement	275 Cu. In. (4.5 L)
Fuel Tank, Typical	110 US Gal (416.4 L)
Fuel Consumption @ 1800 RPM	4.46 GPH (16.9 L/H) (Full Load)
Continuous Horsepower	60 HP @ 1800 RPM
Operating Time	24 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

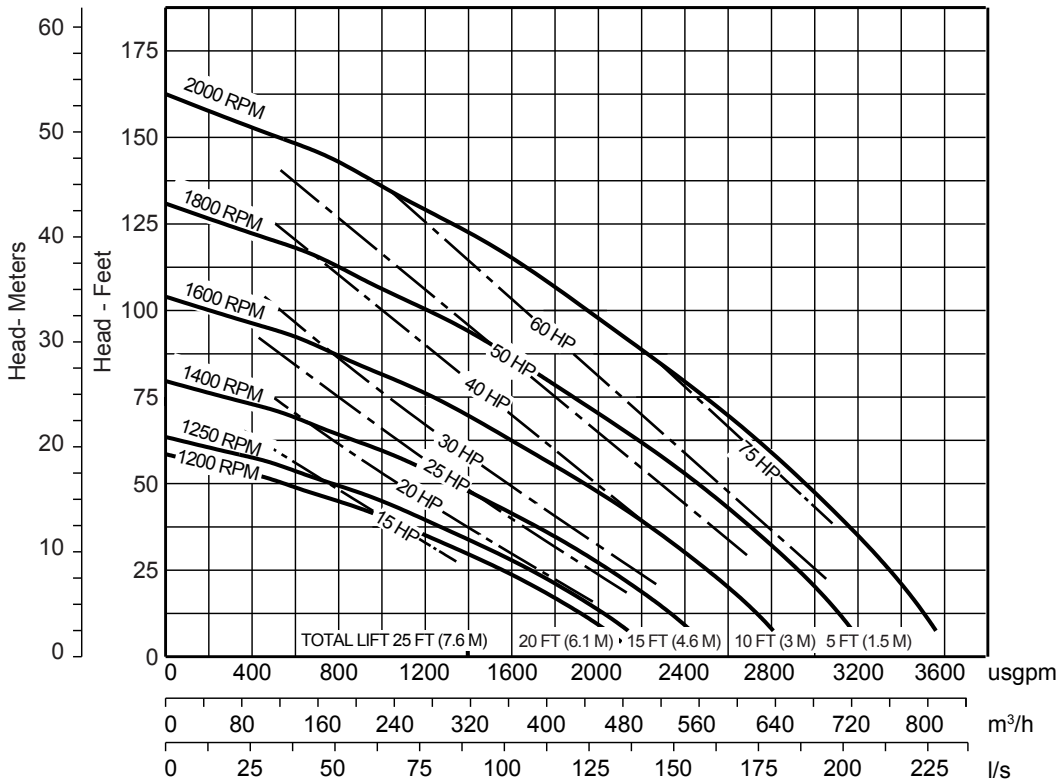
UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage
----------------	---

Performance Curve

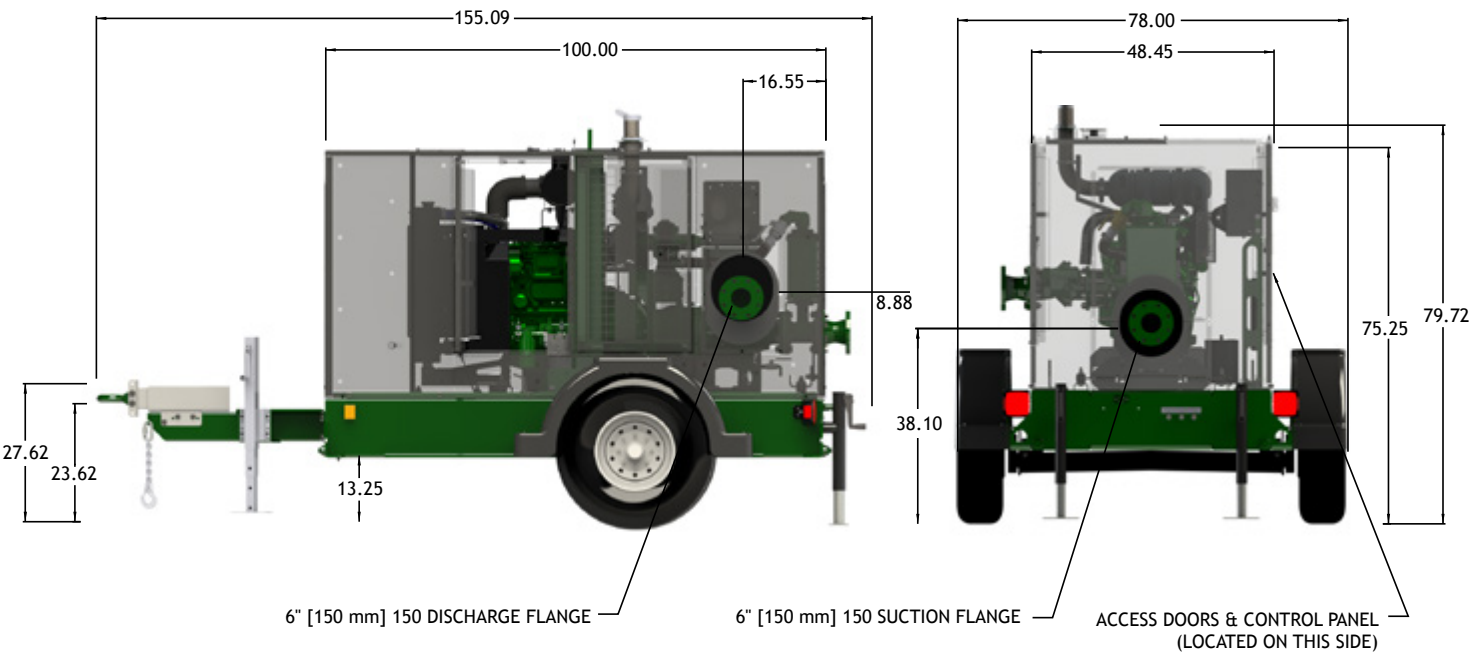
Model: PP66S12	Impeller Dia. 11.0"	Solids Size: 3.0"	Curve # A928HQ
----------------	---------------------	-------------------	----------------



Mechanical Drawing

PP66S12L71-4045TF290

Skid, Dry	4055 lbs
Skid, Wet	4748 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	330 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.



Specification Sheet for Model
PP88S12L71-4045HF285

Pioneer Prime - Vacuum Assisted
Centrifugal Pump, Diesel-Driven Package

Optional Sound Attenuated Enclosure

Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

Pump Specifications

Pump Size	8 x 8 inches	200 x 200
Max Flow	4,500 USgpm	1040 m³/h
Max Head	200 feet	60 metres
Solids Size	3 inches	76 mm

Options & Accessories

Trailers	Control Panel
Off-Road Trailer (No fenders or lights, No VIN)	Lofa 750
On-Road Trailer – Surge Brakes (DOT ready, VIN)	
On-Road Trailer – Electric Brakes (DOT ready, VIN)	Accessories
	Interior Lights
	Skid Tubes
	Solar Charger
	Spare Tire Carrier
	Toolbox

Enclosures

- Weather enclosure kit
- Sound attenuated canopy Kit
- Premium sound attenuated canopy Kit

Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu



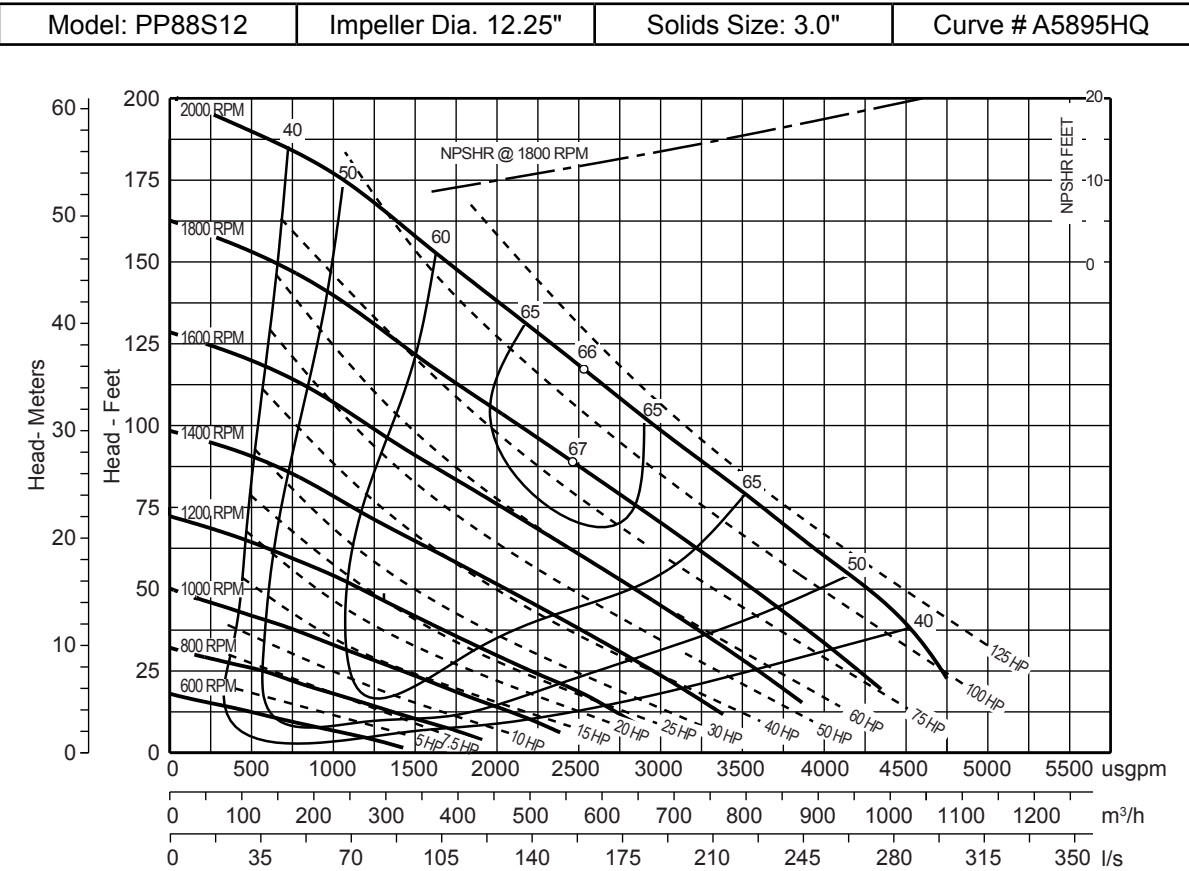
Engine Specifications

Engine Type	John Deere 4045HF285 4 Cylinder Diesel
Displacement	4.5 L, 275 cubic inches
Fuel Tank, Typical	135 US Gal (511.0 L)
Fuel Consumption @ 1800 RPM	6.12 GPH (23.2 L/H) (Full Load)
Continuous Horsepower	109 HP @ 1800 RPM
Operating Time	22 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc
Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage

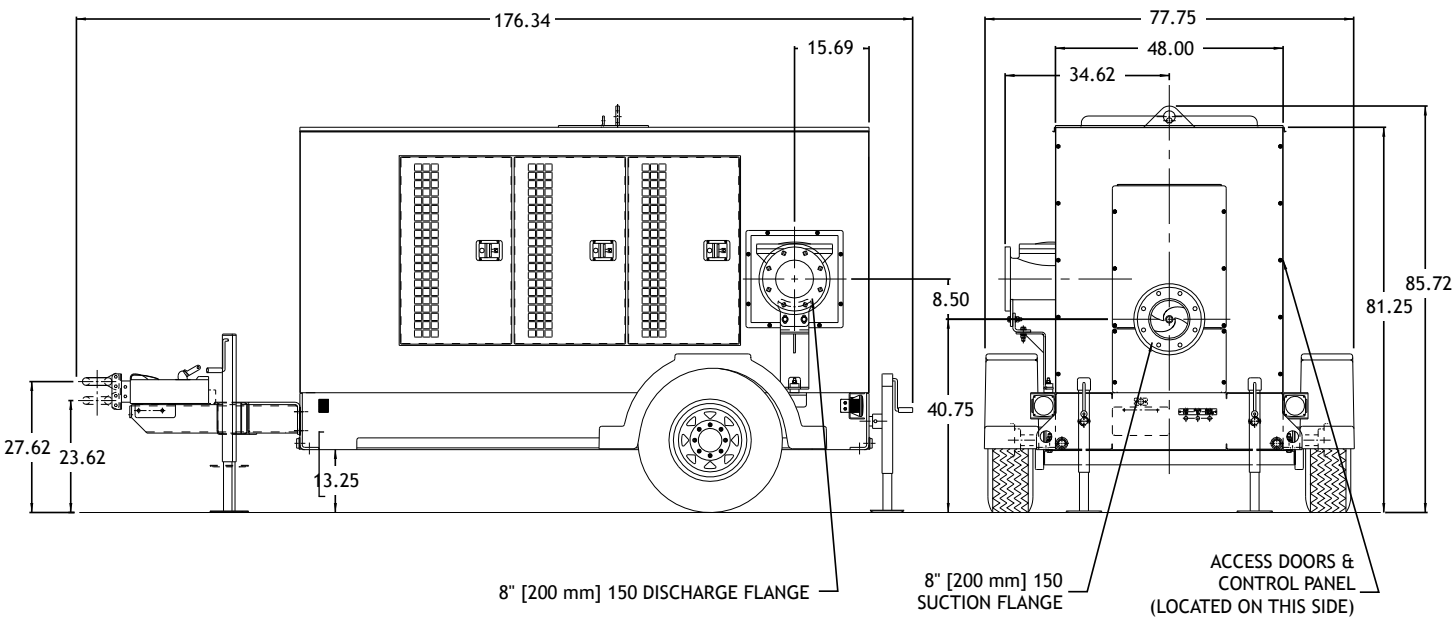
Performance Curve



Mechanical Drawing

PP88S12L71-4045HF285

Skid, Dry	8120 lbs
Skid, Wet	8971 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	480 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.

THE PIONEER PUMP ADVANTAGE

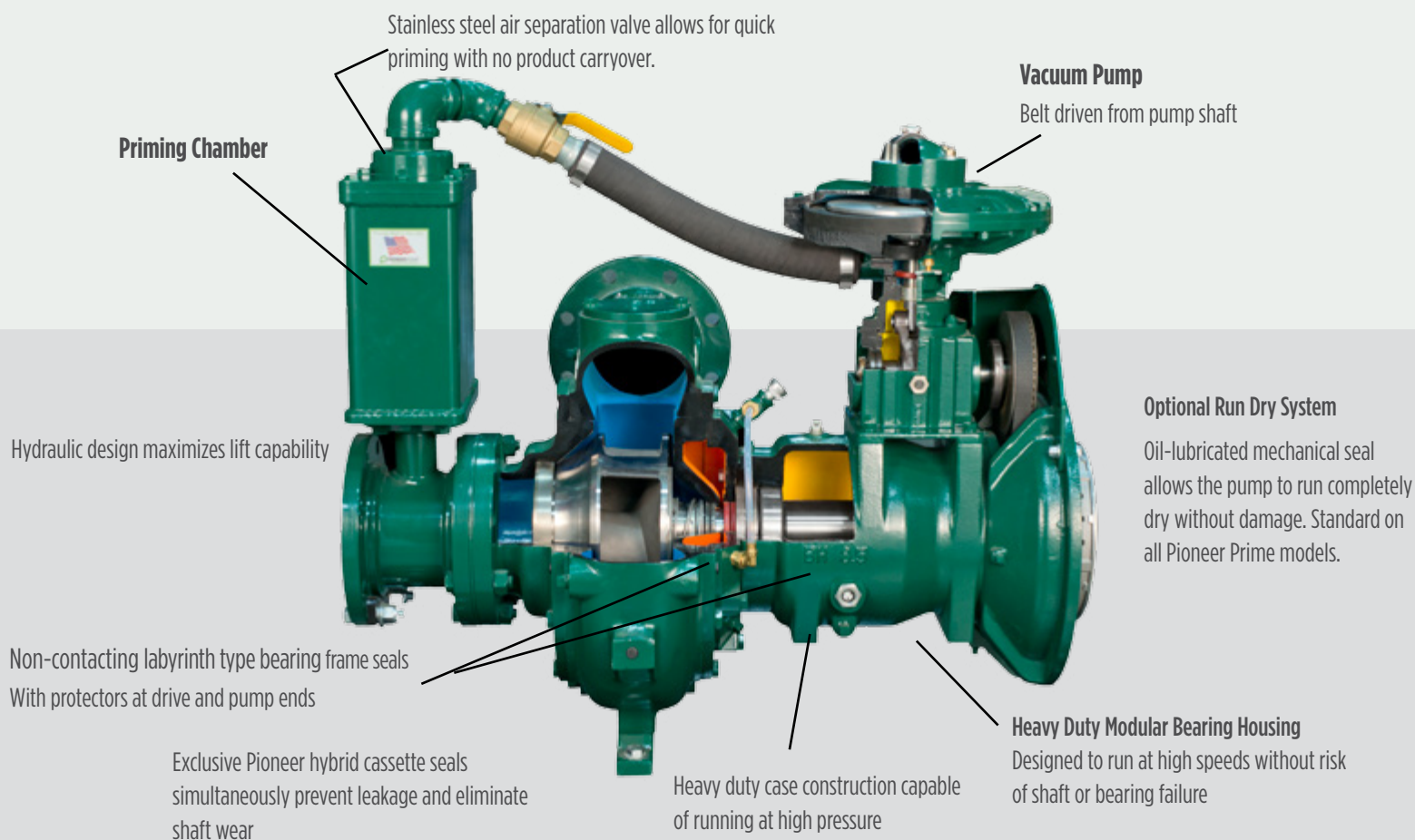
PATENTED PIONEER PRIME

Timing belt driven vacuum pump removes air from the suction line while the Patented Posi-Valve prevents liquid entry into the vacuum pump.

- Quick initial priming
- Overcomes minor suction-side leaks
- Continuous, unattended reprime under auto stop/start conditions

HEAVY DUTY COMPONENTS

All Pioneer Pump standard centrifugal models are designed to stand up under the most demanding environments. Over-sized shafts and bearings, optimal materials and advanced designs combine to create products that deliver performance in the field.



PPLit_UP082415_v1



Distributed by: