





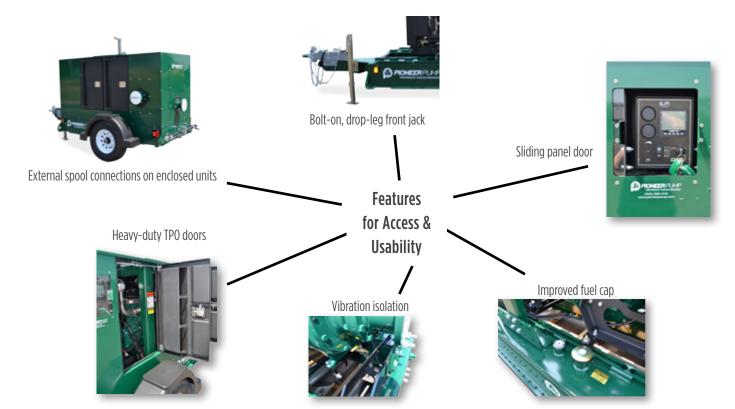
## **UP SERIES DIESEL PACKAGES**

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





## **DESIGNED FOR VERSATILITY**

A good diesel pump package will provide many years of service. As applications needs change, the UP Series package design allows for the addition of kits so that the package configuration can be updated to meet current needs.

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





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.

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# 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 $4 \times 4$  inches $100 \times 100$ Max Flow1,600 USgpm $370 \text{ m}^3/\text{h}$ Max Head150 feet50 metresSolids Size3 inches76 mm

#### Options & Accessories

Trailers Control Panel
Off-Road Trailer Lofa 750

(No fenders or lights, No VIN)

On-Road Trailer – Surge Brakes

(DOT ready, VIN)
On-Road Trailer – Flectric Brak

On-Road Trailer – Electric Brakes Interior Lights
(DOT ready, VIN) Skid Tubes
Solar Charger
Enclosures Spare Tire Carrier

**Accessories** 

Toolbox

Weather enclosure Kit

Sound attenuated canopy Kit
Premium sound attenuated canopy Kit

## **Materials of Construction**

Materials of Constituction							
	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 2.6 GPH (9.8 L/H)

@ 1800 RPM (Full Load)
Continuous 41 HP @ 1800 RPM

Continuous Horsepower

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

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Solids Size: 3.0"

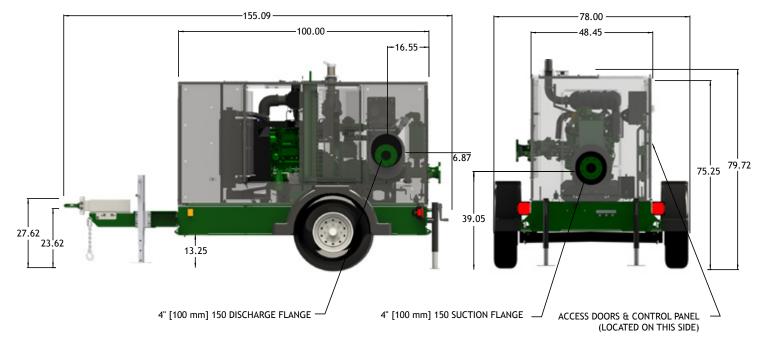
Impeller Dia. 10.0"

## **Mechanical Drawing**

PP44S10L71-404D-22T

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

Curve # 07903HQ



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

PosiValve™ Patent #6,783,730 Patent Pending PP44S10L71\_404D\_22T\_08.15 310 South Sequoia Parkway ■ Canby, Oregon 97013 ■ USA ■ **Tel** 503.266.4115 ■ **Fax** 503.266.4116



## **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 100 370 m<sup>3</sup>/h Max Flow 1,600 USgpm Max Head 150 feet 50 metres Solids Size 3 inches 76 mm

#### Options & Accessories

**Trailers Control Panel** Off-Road Trailer Lofa 750

(Idler Axle, No Lights, No VIN)

On-Road Trailer - Surge Brakes

(DOT ready, VIN)

Accessories On-Road Trailer – Electric Brakes Interior Lights Skid Tubes (DOT ready, VIN)

Solar Charger **Spare Tire Carrier** 

**Enclosures** Weather enclosure kit Toolbox

Sound attenuated canopy Kit

Premium sound attenuated canopy Kit

## **Materials of Construction**

Materials of Constitution							
	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

36 HP @ 1800 RPM

Displacement 177 Cu. In. (2.9 L)

Fuel Tank, Typical 110 US Gal (416.4 L) **Fuel Consumption** 1.95 GPH (7.38 L/H)

@ 1800 RPM (Full Load)

Continuous Horsepower

56 hours Operating Time

Safety Shut Down Low Oil Pressure, High

Switches 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.

Swing Style - ductile iron with Discharge Check Buna-n Disc Valve

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

## **Performance Curve**

Model: PP44S10

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		0	40		80	' 1	120	1	60	20	00	240	) :	280	3	20	360	0	400	4	40	48	80	m³/l

Solids Size: 3.0"

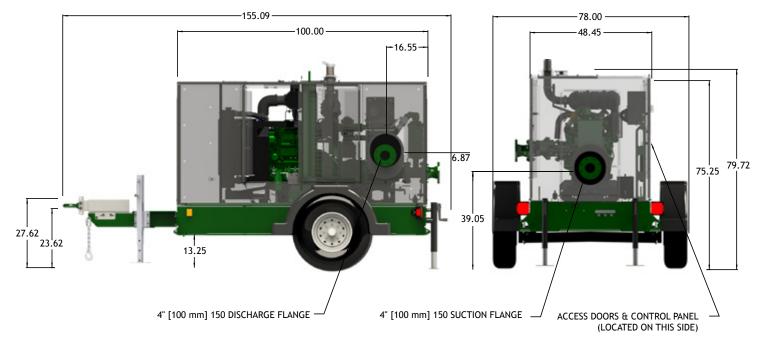
Impeller Dia. 10.0"

## **Mechanical Drawing**

PP44S10L71-D2.9L

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

Curve # 07903HQ



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

PosiValve™ Patent #6,783,730 310 South Seguoia Parkway ■ Canby, Oregon 97013 ■ USA ■ Tel 503.266.4115 ■ Fax 503.266.4116 Patent Pending PP44S10L71 D2.9L 08.15



## **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	Lofa 750

(No fenders or lights, No VIN)

On-Road Trailer - Surge Brakes (DOT ready, VIN)

On-Road Trailer – Electric Brakes

Accessories Interior Lights Skid Tubes (DOT ready, VIN) Solar Charger **Enclosures Spare Tire Carrier** 

Toolbox

Weather enclosure kit

Sound attenuated canopy Kit Premium sound attenuated canopy Kit

## Materials of Construction

Materials of Constituction							
Standard Construction	Optional Constructions						
CA6NM SS	CD4MCu						
17-4 PH	17-4 PH						
Gray Iron	316 SS						
Ductile Iron	CD4MCu						
Ductile Iron	CD4MCu						
Ductile Iron	CD4MCu						
	Standard Construction CA6NM SS 17-4 PH Gray Iron Ductile Iron Ductile Iron						



#### **Engine Specifications**

**Engine Type** Deutz TD2.9L 4 Cylinder Diesel

Final Tier 4

58 HP @ 1800 RPM

Displacement 177 Cu. In. (2.9 L)

Fuel Tank, Typical 110 US Gal (416.4 L) Fuel Consumption 3.67 GPH (13.9 L/H)

@ 1800 RPM (Full Load)

Continuous Horsepower

30 hours Operating Time

Safety Shut Down Low Oil Pressure, High

Switches 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.

Swing Style - ductile iron with Discharge Check

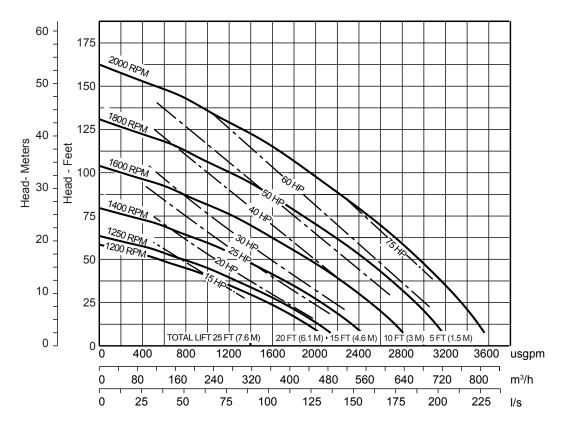
Buna-n Disc Valve

Run Dry System Oil-lubricated mechanical

seal allows the pump to run completely dry without damage

## **Performance Curve**

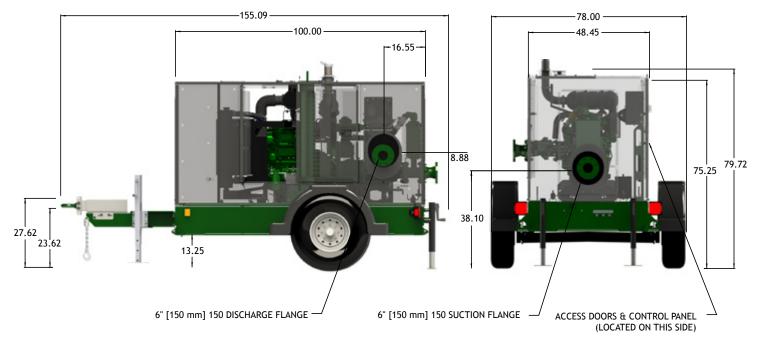
Model: PP66S12	Impeller Dia. 11.0"	Solids Size: 3.0"	Curve # A928HQ



## **Mechanical Drawing**

PP66S12L71-TD2.9L

3755 lbs Skid, Dry 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.

PosiValve™ Patent #6,783,730 310 South Seguoia Parkway ■ Canby, Oregon 97013 ■ USA ■ Tel 503.266.4115 ■ Fax 503.266.4116 Patent Pending PP66S12L71\_TD2.9L\_08.15



## **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 3,200 USgpm 730 m³/h Max Flow Max Head 130 feet 40 metres Solids Size 3 inches 76 mm

#### Options & Accessories

**Trailers Control Panel** Off-Road Trailer Lofa 750

(No fenders or lights, No VIN)

On-Road Trailer - Surge Brakes

(DOT ready, VIN)

On-Road Trailer – Electric Brakes Interior Lights Skid Tubes (DOT ready, VIN) Solar Charger

Accessories

Toolbox

**Spare Tire Carrier** 

**Enclosures** Weather enclosure kit

Sound attenuated canopy Kit

Premium sound attenuated canopy Kit

#### Materials of Construction

riaterials of Constituction								
	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**

Perkins 1104D-44T, 4-Cylinder **Engine Type** 

Diesel Tier 3

68 HP @ 1800 RPM

Displacement 269 Cu. In. (4.4 L)

Fuel Tank, Typical 110 US Gal (416.4 L) **Fuel Consumption** 4.91 GPH (18.6 L/H)

@ 1800 RPM (Full Load)

Continuous Horsepower

22 hours Operating Time

Safety Shut Down Low Oil Pressure, High

Switches 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.

Swing Style - ductile iron with Discharge Check Buna-n Disc

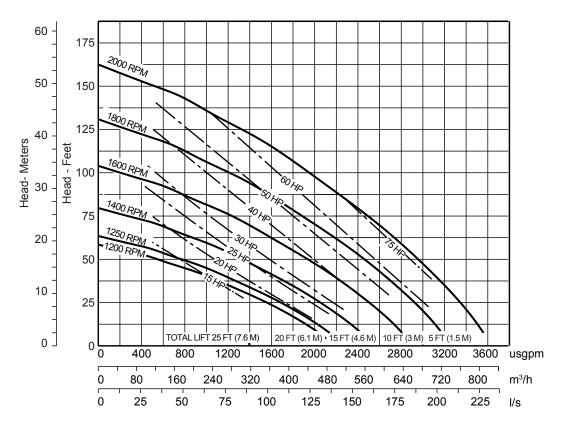
Valve

Run Dry System Oil-lubricated mechanical seal allows the pump to run

completely dry without damage

#### **Performance Curve**

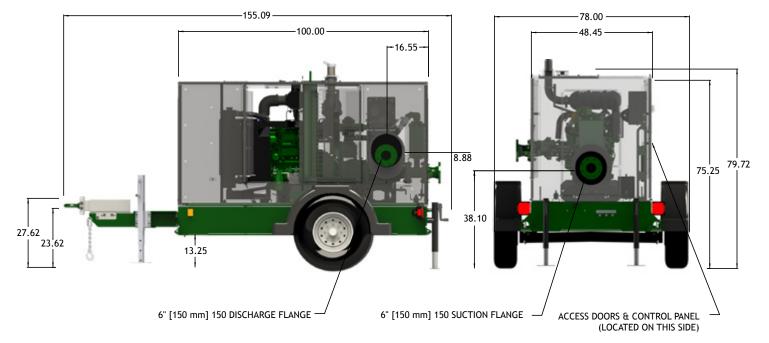
Model: PP66S12	Impeller Dia. 11.0"	Solids Size: 3.0"	Curve # A928HQ



## **Mechanical Drawing**

PP66S12-1104-44T

4005 lbs Skid, Dry 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.

PosiValve™ Patent #6,783,730 310 South Seguoia Parkway ■ Canby, Oregon 97013 ■ USA ■ Tel 503.266.4115 ■ Fax 503.266.4116 Patent Pending PP66S12 1104 44T 08.15



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

#### **Options & Accessories**

**Trailers Control Panel** Lofa 750 Off-Road Trailer

(No fenders or lights, No VIN)

On-Road Trailer - Surge Brakes

(DOT ready, VIN)

On-Road Trailer – Electric Brakes Interior Lights Skid Tubes (DOT ready, VIN) Solar Charger **Enclosures Spare Tire Carrier** 

Accessories

Toolbox

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**

John Deere 4045TF290 4 **Engine Type** Cylinder Diesel Interim Tier 4

275 Cu. In. (4.5 L)

4.46 GPH (16.9 L/H)

60 HP @ 1800 RPM

Fuel Tank, Typical 110 US Gal (416.4 L)

@ 1800 RPM (Full Load)

Continuous Horsepower

Displacement

**Fuel Consumption** 

Operating Time 24 hours

Safety Shut Down Low Oil Pressure, High

Switches 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

Swing Style - ductile iron with Buna-n Disc

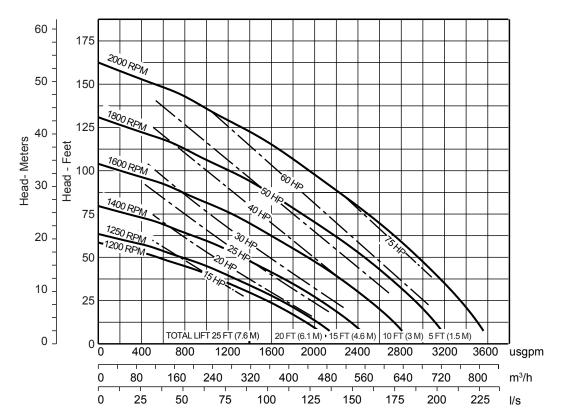
Valve

Run Dry System Oil-lubricated mechanical seal allows the pump to run

completely dry without damage

#### **Performance Curve**

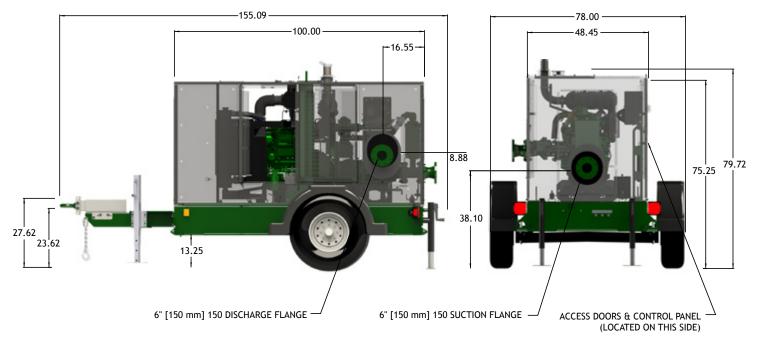
Model: PP66S12	Impeller Dia. 11.0"	Solids Size: 3.0"	Curve # A928HQ



## **Mechanical Drawing**

#### PP66S12L71-4045TF290

4055 lbs Skid, Dry 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.

PosiValve™ Patent #6,783,730 Patent Pending PP66S12L71\_4045TF290\_08.15 310 South Seguoia Parkway ■ Canby, Oregon 97013 ■ USA ■ Tel 503.266.4115 ■ Fax 503.266.4116



## **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	<b>Control Panel</b>
Off-Road Trailer	Lofa 750
(No fondore or lighte No VINI)	

(No fenders or lights, No VIN) On-Road Trailer - Surge Brakes

(DOT ready, VIN)

On-Road Trailer – Electric Brakes

**Accessories** Interior Lights Skid Tubes (DOT ready, VIN) Solar Charger **Spare Tire Carrier** 

Toolbox

**Enclosures** Weather enclosure kit

Sound attenuated canopy Kit

Premium sound attenuated canopy Kit

## Materials of Construction

Materials of Constitution					
Standard Construction	Optional Constructions				
CA6NM SS	CD4MCu				
17-4 PH	17-4 PH				
Gray Iron	316 SS				
Ductile Iron	CD4MCu				
Ductile Iron	CD4MCu				
Ductile Iron	CD4MCu				
	Standard Construction CA6NM SS 17-4 PH Gray Iron Ductile Iron Ductile Iron				



#### **Engine Specifications**

Engine Type	John Deere 4045HF285

4 Cylinder Diesel

(Full Load)

Displacement 4.5 L, 275 cubic inches

Fuel Tank, Typical 135 US Gal (511.0 L) **Fuel Consumption** 6.12 GPH (23.2 L/H) @ 1800 RPM

Continuous

109 HP @ 1800 RPM

Horsepower

22 hours Operating Time

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

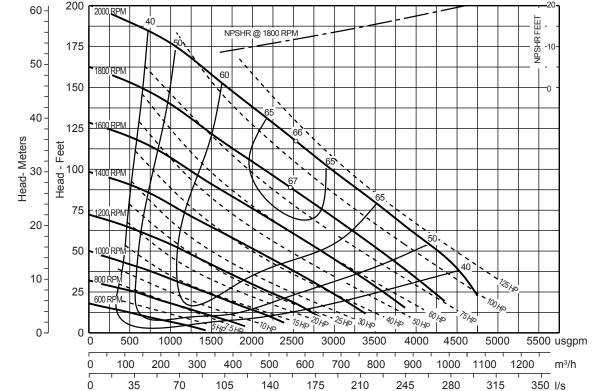
Swing Style - ductile iron with Buna-n Disc

Run Dry System

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

## **Performance Curve**

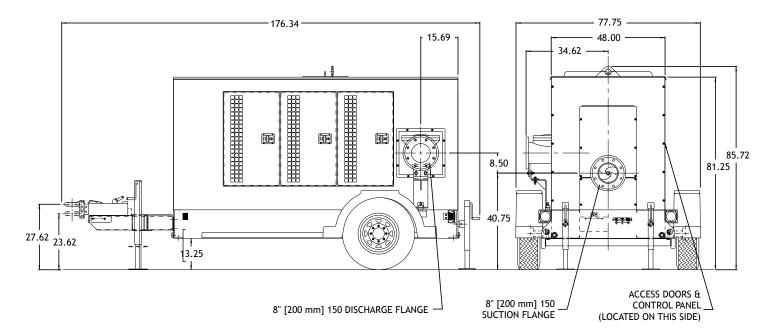
Model: PP88S12	Impeller Dia. 12.25"	Solids Size: 3.0"	Curve # A5895HQ



## **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.

PosiValve™ Patent #6,783,730 PP88S12L71\_4045HF285\_08.15 310 South Seguoia Parkway ■ Canby, Oregon 97013 ■ USA ■ Tel 503.266.4115 ■ Fax 503.266.4116 Patent Pending

## THE **PIONEER PUMP** ADVANTAGE

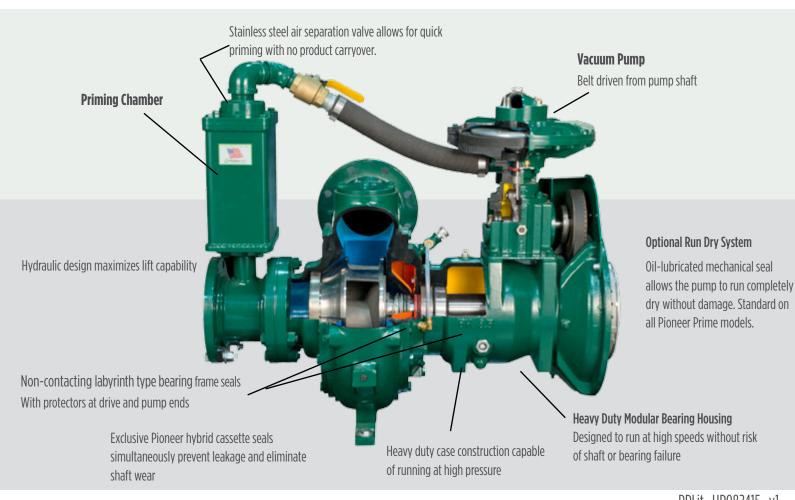
## PATENTED PIONEER PRIME

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 primingOvercomes 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.



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# PERFORMANCE THROUGH INNOVATION

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